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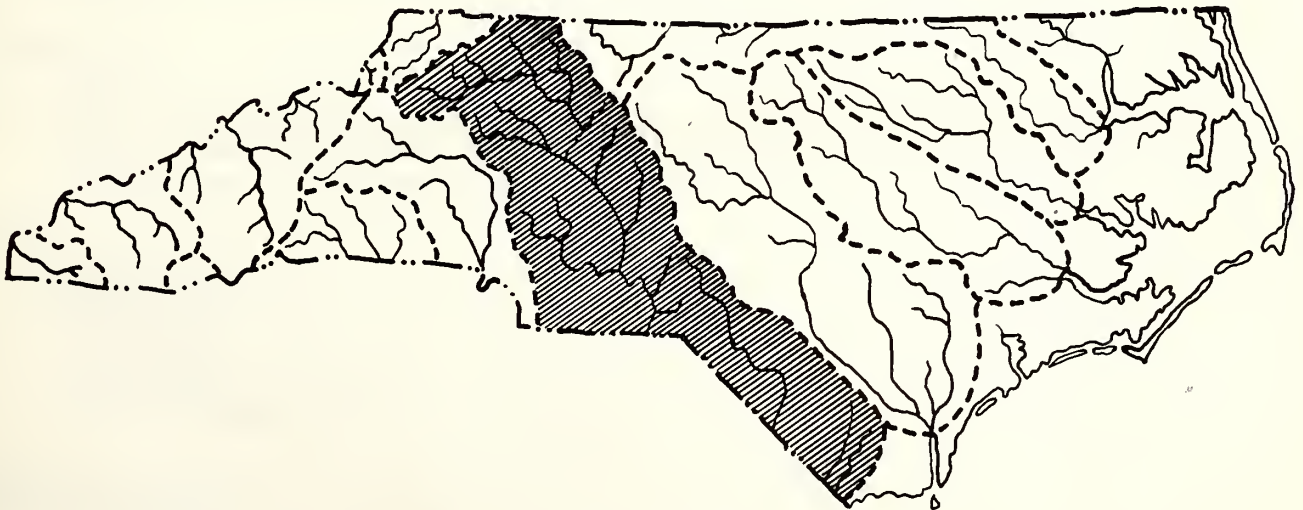
DIVISION OF WATER RESOURCES AND ENGINEERING

W.H. RILEY, PRINCIPAL ENGINEER

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**HYDROLOGIC DATA**  
**ON THE**  
**YADKIN-PEE DEE RIVER BASIN**  
**1866-1945**

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PREPARED IN COOPERATION WITH  
UNITED STATES GEOLOGICAL SURVEY  
AND UNITED STATES WEATHER BUREAU  
1948



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## FOREWORD

This is the third of a series of publications giving hydrologic data in the State of North Carolina. Previous publications have been released under the titles of "Hydrologic Data on the Neuse River Basin" and "Hydrologic Data on the Cape Fear River Basin." It is planned to issue similar publications on each of the river basins of the State.

The purpose of this publication is not to supply all the hydrologic information collected in the Yadkin-Pee Dee River Basin, but to make available under one cover the information that can be readily used. Records at several Weather Bureau stations as well as at several stream flow stations are omitted as they would make the publication unnecessarily bulky and might be misleading to those that are not working with such data constantly. Full information on these stations can be obtained from the Division of Water Resources and Engineering of the Department of Conservation and Development, Raleigh, North Carolina, and its cooperating agency the U. S. Geological Survey, Raleigh, North Carolina. Complete climatological data can be obtained from the U. S. Weather Bureau, Raleigh, North Carolina.

Records of stream flow in this report have been compiled from records of the Water Resources Branch of the U. S. Geological Survey. Some of these are revised records and have not yet been published in the Water-Supply Papers of the U. S. Geological Survey. Differences may be found between figures published in this report and those contained in official publications of the U. S. Geological Survey. The records presented herein are believed to be the latest official revised figures. In any case whenever differences are found the matter should be checked with the district office of the Water Resources Branch, U. S. Geological Survey, Raleigh, North Carolina.

Water is one of the greatest natural resources in the Yadkin-Pee Dee River Basin. No other resource is more abundant or can serve the public in more beneficial ways, yet no other resource is subject to as much misuse. With wise planning and control water can be made man's best servant; without wise planning and control water can be man's greatest enemy. Every drop of water that passes to the sea is a loss to the public unless it has given up its full usefulness. By better planning the uses of this great resource, it can be made to serve a larger number of people to better advantage and pay larger dividends to the whole State.

Large industries, power plants, and other large users of water have now taken practically all of the locations where there is no question as to the amount of water being adequate for their uses. Today smaller water-sheds are being developed, and without records it is difficult to estimate the dependable flow with any degree of certainty. It is useless to think that industry will make a large investment at any site unless it can be assured of having sufficient water of suitable quality to meet its demands at all times.

Industry is one of the mainstays of our civilization. It provides employment for the citizens of a community and helps support the city, county, and State Governments. Water is required by most industries either to furnish power or in the processing of raw materials. Requirements for supplies of water adequate in both quantity and quality are rigid. Since most industries must operate during all periods of the year and some of the elements present in the water may damage the final product, all data possible on the supplies of water should be readily available for use. As industries grow in the State some will need to expand their present plants, others will need to build plants, and still others may need to change from ground water to surface water. In all of these instances the information in this publication will be found very useful.

Weather conditions often have their effects upon industries and may be the deciding factor in their location. Although the records of only four Weather Bureau Stations appear in this publication, they are believed to be representative of general conditions throughout the whole basin.

Quality of the water is playing a large part every day in the selection of water supplies for industrial and domestic use. Certain elements can be very harmful to the final products of a great number of manufacturers and may be costly to remove. Many industries are greatly benefited in selecting their locations when information is available on the quality of water. The Yadkin-Pee Dee River and its tributaries have water suitable for the manufacturing of many products. Users of water will find analyses of some of the public water supplies very useful.

#### ACKNOWLEDGMENT

Grateful acknowledgment is made to Mr. E. B. Rice, of the U. S. Geological Survey, for supplying information related to stream flow; to Mr. W. L. Lamar, District Chemist of the U. S. Geological Survey, for supplying information on quality of water; to Mr. M. J. Mundorff, Resident Geologist of the U. S. Geological Survey, for supplying information on ground water; to Mr. C. E. Lamoureux, Section Director of U. S. Weather Bureau, for supplying information on rainfall and temperature; and to Miss Sallaine Sledge, who has prepared the copy for the printers as well as assisted in collecting the data.

## DESCRIPTION OF WATER SHED

The Yadkin-Pee Dee River is an interstate stream located in Virginia, North Carolina, and South Carolina. It rises on the eastern slope of the Blue Ridge Mountains in Caldwell, Watauga, and Wilkes Counties, North Carolina, and flows approximately 100 miles in a general northeasterly direction to a point near Winston-Salem and thence southeasterly to enter the Atlantic Ocean through Winyah Bay near Georgetown, South Carolina. The portion of the stream above the mouth of the Uwharrie River is known as the Yadkin River, and that portion below as the Pee Dee or Great Pee Dee River.

The Yadkin-Pee Dee River Basin is bordered on the west by the Catawba River Basin, on the North by the New and Roanoke River Basins and on the East by the Cape Fear River Basin. The actual drainage area lying in North Carolina is 9,300 square miles, having a straight-line length of about 235 miles and an average width above Scotland County of about 65 miles.

The sources of the headwater streams of the Yadkin River are at elevations ranging from 3,500 to 4,000 feet above mean sea level and descend rapidly to an elevation of 1,500 feet in about 10 miles. At North Wilkesboro, 214 miles above the North Carolina-South Carolina State line, an elevation of 934 $\frac{1}{2}$  feet is reached. Below Wilkesboro, the average slope of the stream ranges from 2.38 feet to 8.1 feet per mile, with one 4-mile reach known as the "The Narrows", having, prior to the construction of the dams of the Tallassee Power Company, an average slope of 22.75 feet per mile. These slopes are shown roughly on the Condensed Profile.

The Yadkin-Pee Dee River Basin is divided into three well defined physiographic regions, viz, the Coastal Plain, the Piedmont Plateau, and the Mountain Region. The contact between the first two is one of the most clearly defined of natural boundaries and is known as the "fall line". It marks the head of navigation and divides the basin both geographically and industrially.

The extreme western part of the Coastal Plain is quite undulating, with hills rising to elevations ranging from 400 to 500 feet above sea level. The eastern portion may be described as a region but recently elevated slightly above the sea, and with a large part of the surface nearly level and so unaffected by erosion that it is poorly drained. Consequently, bays and estuaries are found near the coast, while numerous large swamps exist further inland. It is this low-lying area that is extensively inundated during floods, the overflow and backwater from the rivers and tributaries covering large areas.

The Piedmont Plateau lies between the "fall line" and the mountains and is the industrial section of the basin. It has a marked rolling surface, with hills rising higher above the plain as one proceeds westward, culminating in the Brushy Mountains with elevations ranging from 2,000 to 2,500 feet in Wilkes and Alexander Counties. The eastern half, taken as a whole, has a general elevation of 700 feet, while the western half may be said to average about 1,200 feet. Its soil is much older, more varied, and its geologic history more complex than the young and undeveloped topography of the Coastal Plain.

The Mountain Region, as the name implies, consists of rugged foothills and mountainous reaches. The tributaries of the Yadkin River do not penetrate deeply into this region but have their sources on the slope or crests of the Blue Ridge Mountains, which constitute the eastern wall of the Appalachian Mountain system.

# N.C. DEPT. OF CONSERVATION AND DEVELOPMENT

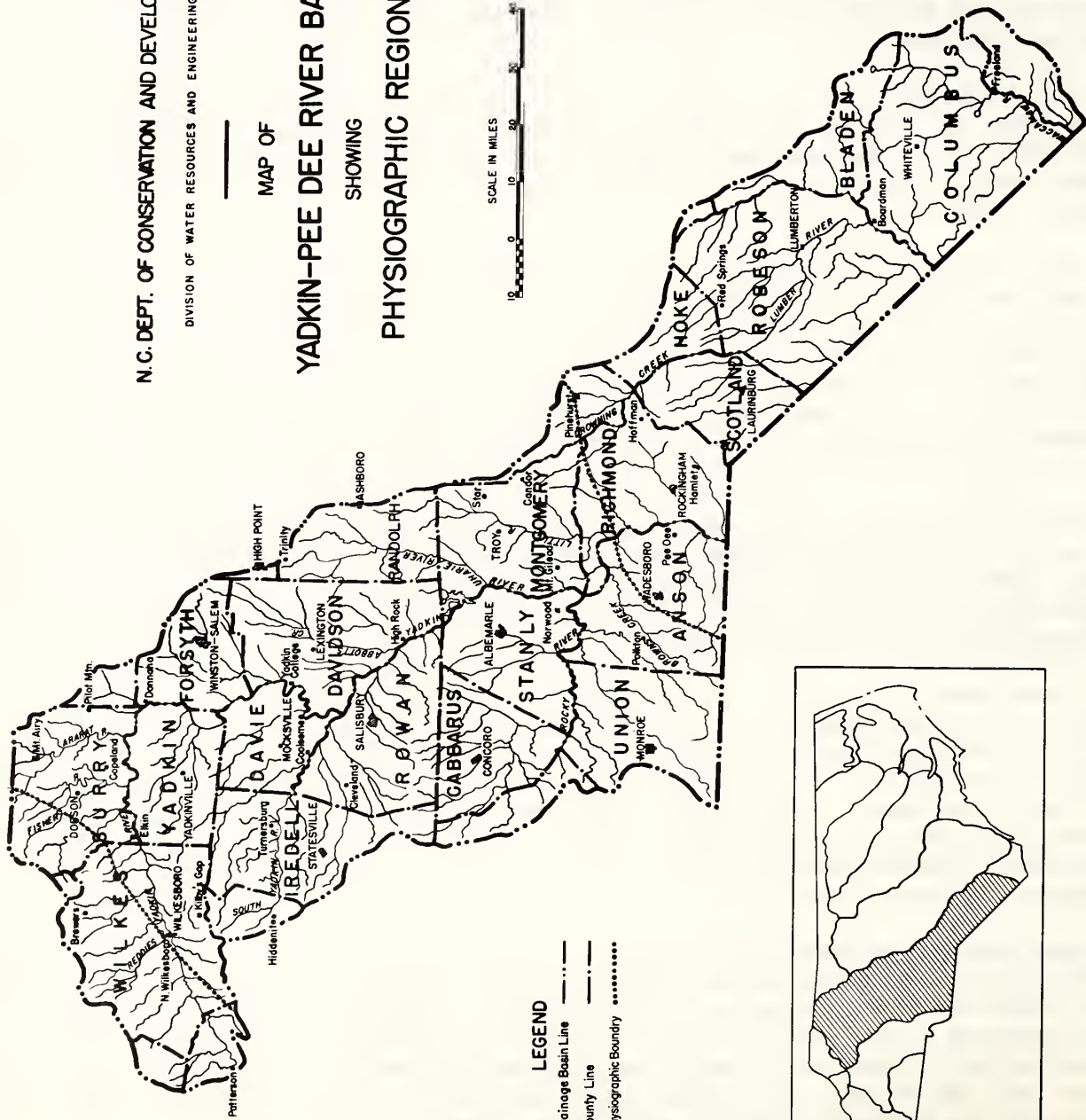
DIVISION OF WATER RESOURCES AND ENGINEERING

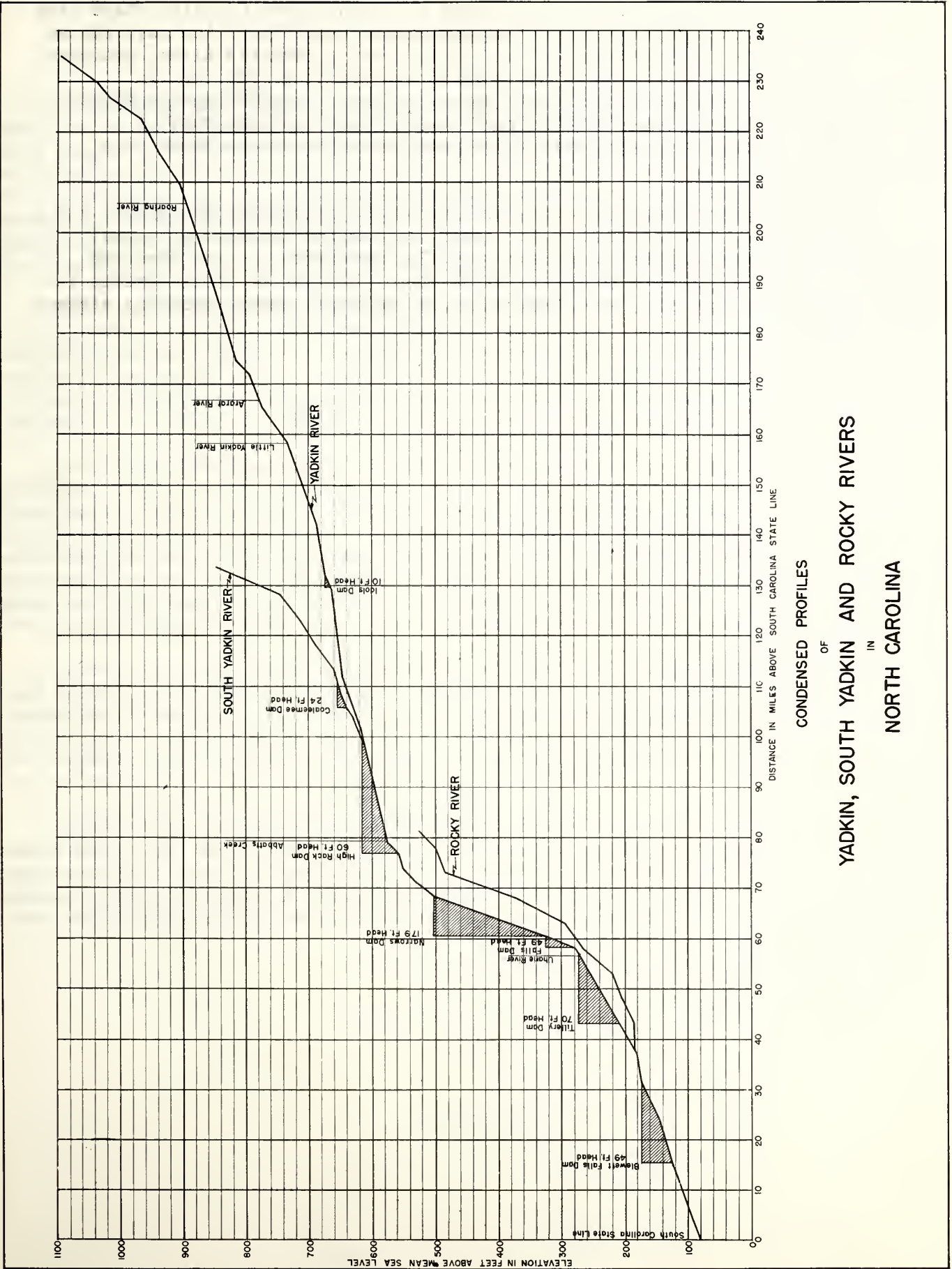
## MAP OF YADKIN-PEE DEE RIVER BASIN SHOWING PHYSIOGRAPHIC REGIONS

SCALE IN MILES  
0 10 20 30

### LEGEND

- Drainage Basin Line ————
- County Line - - - - -
- Physiographic Boundary .....\*





Principal tributaries to the main stream above the South Carolina State line are: Rocky River, drainage area 1,430 square miles, which joins the main stream from the right bank in the lower part of Stanly County; Uwharrie River, drainage area 350 square miles, which joins the main stream from the left bank in Montgomery County; and the South Yadkin River, drainage area 908 square miles, which enters the main stream from the right bank in the southern part of Davie County. Profiles of the South Yadkin and Rocky Rivers are shown on a Condensed Profile.

The Lumber River, known in South Carolina as the Little Pee Dee River, and the Waccamaw River, both located in the lower part of the basin, are typical coastal plain streams in that they have very flat gradients and are bordered throughout their length with swamp and marsh land. Neither of these streams is navigable in North Carolina, and their value as potential power-producing streams is negligible.

## STREAM FLOW

The flow of the Yadkin-Pee Dee River and its tributaries has been recorded by a total of 40 gaging stations. Only records that have a length of 10 years or more or were active at the end of 1945 will be shown in this publication. A chart showing all stations with their period of record can be found on page 8. Records of daily discharge for all of the stations listed can be obtained from the Division of Water Resources and Engineering, Department of Conservation and Development, Raleigh, North Carolina; or from the U. S. Geological Survey, Surface Water Branch, Raleigh, North Carolina.

The longest record in the Yadkin-Pee Dee River Basin is that of the Yadkin River at Wilkesboro. Although this record is not continuous it does have a long enough record during each period of operation to furnish much valuable information. The original station at which a record was obtained from 1903 to 1909 and from 1920 to 1928 was located just one mile below the present site. Operation was started at the present site in 1928 and has been continuous since that date.

No attempt has been made to include daily discharge records, since these are published in the Water Supply Papers of the U. S. Geological Survey. In place of these daily records tables of average weekly discharge are shown. Computations of weekly discharge have been made by averaging the daily discharge for consecutive seven-day periods. When leap years intervene the extra day has been included in the eight-day period covering the last of February and the first of March. In non-leap years one eight-day period has been used at the last of December. The seven-day periods used have been the same seven calendar days for each year.

Maximum and minimum daily discharges have been tabulated in separate tables for each month in each year of record. In another table will be found the mean monthly discharge for each year of record. These tables were set up in this form as the records were believed to be more useful when grouped together in individual tables. For example the minimum daily flow may be easily selected for the station desired by looking under the table for minimum discharge for the station.

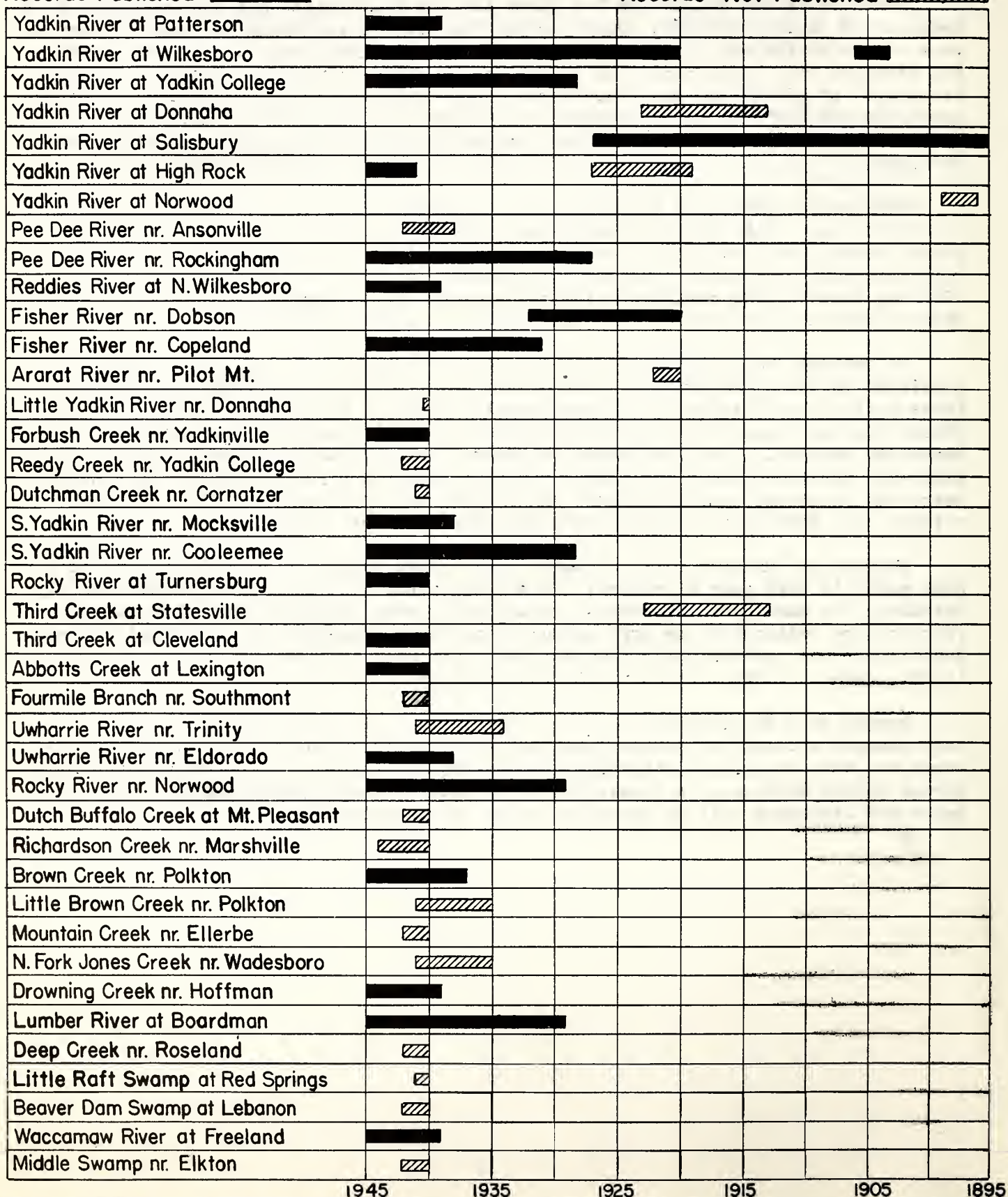
During very dry seasons and often during floods a number of miscellaneous measurements are made at points where there are no gaging stations. These measurements are very useful in estimating the flow on the streams that have no established stream gaging stations. A tabulation of all miscellaneous measurements giving their dates and discharge will be found at the end of this section.

# STREAM GAGING STATIONS IN YADKIN-PEE DEE RIVER BASIN

## SHOWING RECORDS AVAILABLE

Records Published 

Records Not Published 



1945

1935

1925

1915

1905

1895

# N.C. DEPT. OF CONSERVATION AND DEVELOPMENT

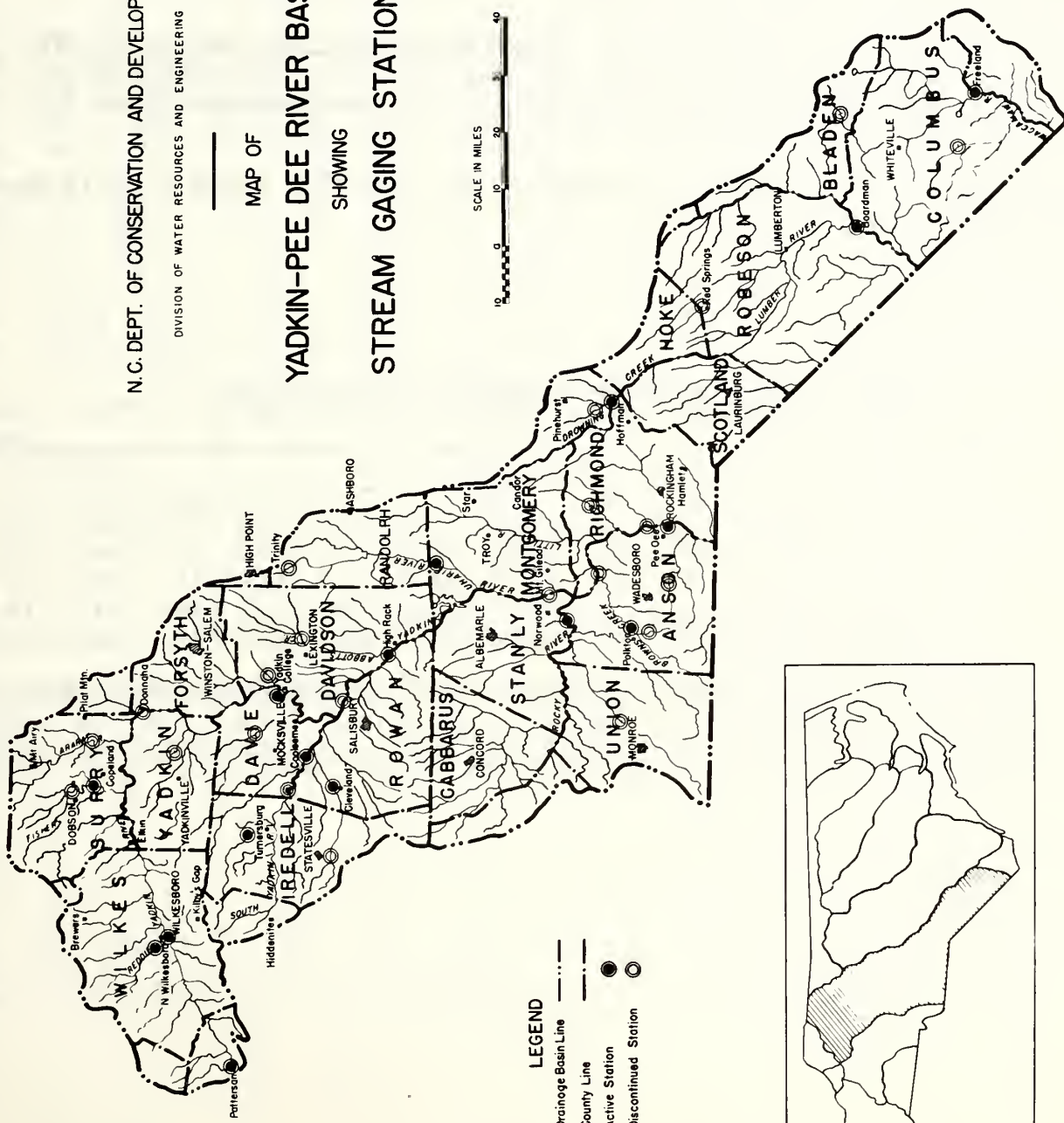
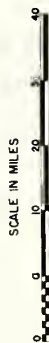
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MAP OF

## YADKIN-PEE DEE RIVER BASIN

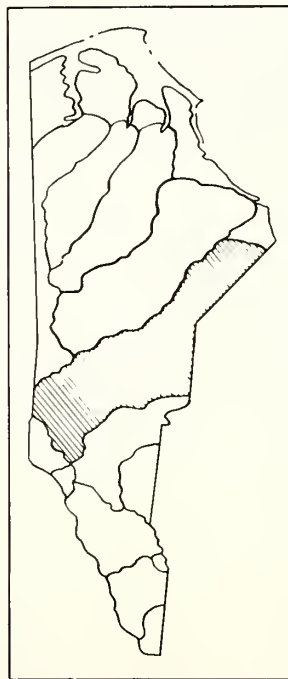
SHOWING

## STREAM GAGING STATIONS



### LEGEND

- Drainage Basin Line — · · · —
- County Line — — — —
- Active Station ●
- Discontinued Station ○



Yadkin River at Patterson, N. C.

Location.- Water-stage recorder, lat.  $35^{\circ}59'30''$ , long.  $81^{\circ}33'32''$ , 200 feet upstream from bridge on State Highway 268 and half a mile south of Patterson, Caldwell County.

Drainage area.- 28.8 square miles.

Records available.- November 1939 to date.

Extremes.- 1939-45: Maximum discharge, 10,500 million gallons per day Aug. 13, 1940 (gage height, 12.70 feet), by computation of flow over dam; minimum 3.9 million gallons per day (regulated) Sept. 7, 1944; minimum daily, 5.8 million gallons per day.

Remarks.- Records poor. Diurnal fluctuation during low flow caused by mills above station.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1939												18.4	
1940	17.4	22.7	23.6	27.5	13.2	21.1	18.9	125	26.7	16.7	18.9	24.5	29.8
1941	21.9	17.8	21.1	25.8	13.9	13.0	63.9	26.5	13.9	11.7	12.3	24.9	22.3
1942	22.2	34.4	48.1	22.4	54.6	61.6	30.9	44.1	66.5	25.1	22.2	40.7	39.4
1943	43.2	47.3	42.1	46.8	47.4	27.6	54.7	18.3	12.7	11.2	15.1	13.7	31.7
1944	20.8	37.7	54.3	38.5	26.2	15.7	13.4	10.9	18.9	23.3	15.3	14.3	24.0
1945	20.0	30.7	27.6	41.2	34.1	13.2	12.8	14.9	61.7	19.7	17.7	35.6	27.3
Max.	43.2	47.3	54.3	46.8	54.6	61.6	63.9	125	66.5	25.1	22.2	40.7	39.4
Min.	17.4	17.8	21.1	22.4	13.2	13.0	12.8	10.9	12.7	11.2	12.3	13.7	22.3
Mean	24.2	31.8	36.1	33.7	31.6	25.4	32.4	40.0	33.4	18.0	16.9	24.6	29.1

Yadkin River at Patterson N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1939												32	
1940	30	56	37	49	23	39	41	1380	78	21	35	81	1380
1941	32	23	32	86	23	48	331	74	21	26	24	90	331
1942	45	118	276	32	235	180	117	148	638	34	32	251	638
1943	109	131	111	189	196	57	165	26	24	14	98	51	196
1944	57	127	166	66	54	26	26	20	194	89	41	23	194
1945	62	141	42	143	134	20	32	51	525	42	32	90	525
Max.	109	141	276	189	235	180	331	1380	638	89	98	251	1380
Min.	30	23	32	32	23	20	26	20	21	14	24	23	194
Mean	55.8	99.3	111	94.2	111	61.7	119	283	247	37.7	43.7	88.3	544

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1939												11	
1940	11	14	17	19	6.5	9.7	12	13	16	12	14	12	6.5
1941	17	12	15	17	7.8	5.8	13	14	9.7	7.1	8.4	11	5.8
1942	14	21	21	16	14	27	17	20	24	21	19	21	14
1943	25	30	27	30	29	19	24	13	10	8.4	8.4	7.8	7.8
1944	12	11	25	28	19	11	9.0	6.5	7.1	10	10	10	6.5
1945	9.7	7.8	20	20	19	8.4	7.1	9.0	12	16	14	18	7.1
Max.	25	30	27	30	29	27	24	20	24	21	19	21	14
Min.	9.7	7.8	15	16	6.5	5.8	7.1	6.5	7.1	7.1	8.4	7.8	5.8
Mean	14.8	16.0	20.8	21.7	15.9	13.5	13.7	12.6	13.1	12.4	12.3	13.0	8.0

## Yadkin River at Patterson N. C.

## Mean Weekly Discharge in Million Gallons per day

Week Ending	1939	1940	1941	1942	1943	1944	1945
Jan. 7		16	27	30	42	26	37
14		20	20	19	30	15	20
21		19	19	21	42	31	15
28		16	21	19	48	16	12
Feb. 4		16	20	23	56	13	10
11		19	16	39	72	22	10
18		23	19	44	43	60	26
25		32	17	30	35	46	62
Mar. 4		22	17	25	30	32	37
11		22	25	96	28	43	31
18		23	24	40	37	39	23
25		23	18	32	63	64	23
Apr. 1		27	19	36	47	89	31
8		28	41	25	34	41	30
15		26	25	25	34	39	21
22		30	19	20	76	34	65
29		26	20	19	45	36	51
May 6		19	17	20	33	31	32
13		14	17	17	69	29	24
20		10	13	77	48	23	59
27		11	12	111	44	21	29
June 3		11	11	36	34	25	19
10		24	10	65	28	21	16
17		24	19	98	26	16	13
24		25	9.7	35	21	14	13
July 1		16	13	57	34	11	9.0
8		22	89	34	48	16	9.7
15		20	69	25	99	15	9.0
22		19	83	20	54	14	16
29		16	32	43	28	10	13
Aug. 5		17	34	25	23	12	18
12		20	36	24	21	12	11
19		368	22	52	16	12	12
26		45	22	78	14	7.8	23
Sept. 2		129	16	34	17	10	14
9		33	16	159	14	7.8	16
16		23	14	44	11	10	43
23		20	12	28	15	14	178
30		19	13	45	11	47	24
Oct. 7		17	12	25	11	25	25
14		17	11	25	11	17	19
21		16	11	25	12	34	16
28		16	13	27	12	24	21
Nov. 4		23	15	25	11	11	16
11		16	13	23	28	12	14
18		21	10	21	12	12	16
25		17	12	22	10	16	22
Dec. 2	17	16	12	23	10	25	20
9	17	14	28	29	11	16	44
16	16	17	18	26	9.7	14	28
23	21	20	17	22	11	14	21
31	19	47	37	84	22	12	51
Maximum		368	89	159	99	89	178
Minimum		10	9.7	17	9.7	7.8	9.0

# Yadkin River at Wilkesboro, N. C.

Location.-- Water-stage recorder, lat. 36°09', long. 81°09', at highway bridge connecting North Wilkesboro and Wilkesboro, Wilkes County, just downstream from Reddies River. Datum of gage is 942.35 feet above mean sea level, datum of 1929, supplementary adjustment of 1936.

Drainage area.-- 493 square miles.

Records available.-- April 1903 to June 1909, October 1920 to September 1928 (all at site at North Wilkesboro, 1 mile downstream), October 1928 to September 1944 in reports of Geological Survey. April 1903 to May 1907 (revised figures) in Bulletin 34 of North Carolina Department of Conservation and Development.

Average Discharge.-- 28 years (1903-6, 1920-45), 508 million gallons per day.

Extremes.-- Maximum discharge during year, 103,400 million gallons per day Aug. 14, 1940 (gage height, 37.6 feet, from floodmarks) by slope-area method; minimum, 65 million gallons per day Jan. 20, 1940 (gage height, 1.54 feet), result of low temperature; minimum daily, 105 million gallons per day July 21, 24, 1926. Flood of July 1916 reached a stage of 34.5 feet, from flood reference mark cut in old steel highway bridge (discharge, 74,940 million gallons per day).

Remarks.-- Records good except those above 3,880 million gallons per day which are fair. Slight diurnal fluctuation at low flow caused by power plant on Reddies River 1 mile above station.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1903				1505	963	937	589	525	414	479	364	326	
1904	292	403	672	390	859	795	641	698	388	251	303	333	502
1905	489	636	529	538	698	402	1059	672	466	345	279	730	570
1906	1298	736	1008	872	698	1234	1072	2022	1420	1964	1544	956	1235
1907	859	652	717	788	598								
1920										419	488	963	
1921	749	930	598	820	775	530	462	387	327	397	419	429	568
1922	461	743	1008	775	1079	853	827	535	350	463	306	386	649
1923	493	536	988	514	585	413	351	360	318	233	305	380	456
1924	685	418	539	685	521	385	827	353	665	514	389	711	557
1925	749	494	467	401	380	241	203	160	172	174	240	195	323
1926	552	534	367	426	236	209	185	421	242	211	359	528	356
1927	307	349	275	274	315	313	274	282	187	285	322	463	304
1928	476	484	454	592	637	576	508	1518	1589	615	470	429	
1929	432	724	1085	619	691	585	500	390	430	1189	775	643	672
1930	548	510	576	430	355	273	186	233	225	199	269	351	346
1931	364	205	335	619	492	306	320	351	169	150	163	333	318
1932	665	446	469	436	464	377	235	373	200	782	717	775	496
1933	618	646	599	736	795	415	336	253	258	207	196	194	437
1934	225	235	698	717	292	280	317	358	393	476	522	561	424
1935	880	533	773	657	474	322	617	383	543	308	401	350	521
1936	1176	711	801	1027	474	372	306	364	277	964	348	557	616
1937	1466	763	572	540	550	422	285	420	387	1056	552	445	622
1938	466	420	477	390	437	517	787	579	325	228	415	321	448

Yadkin River at Wilkesboro, N. C.

Mean Monthly Discharge in Million Gallons per day (cont.)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1939	432	1165	699	542	408	452	446	572	242	211	199	229	462
1940	214	390	316	392	260	354	315	2641	558	307	378	529	557
1941	400	312	388	399	238	227	1007	343	211	184	228	391	362
1942	366	525	678	340	719	769	366	450	786	334	303	589	518
1943	691	668	629	721	687	430	777	382	262	222	306	281	504
1944	426	607	836	579	472	329	321	243	443	530	300	322	450
1945	464	555	453	522	439	276	327	269	1213	436	391	608	495

Summary of Period 1921-45

Max.	1466	1165	1085	1027	1079	853	1007	2641	1589	1189	775	775	672
Min.	214	205	275	274	236	209	185	160	169	150	163	194	304
Mean	572	556	603	566	511	409	443	505	431	427	371	440	478

Summary of Record

Max.	1466	1165	1085	1505	1079	1234	1072	2641	1589	1964	1544	963	1235
Min.	214	205	275	274	236	209	185	160	169	150	163	194	304
Mean	595	563	621	608	553	469	498	570	464	471	408	477	509

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1903				2130	1150	3740	1290	885	963	3490	736	488	
1904	459	963	3700	607	5980	2470	3670	2300	1200	273	724	879	5980
1905	2130	1850	762	1900	2070	1200	8330	1810	3290	1560	293	4130	8330
1906	7490	12000	2360	2130	2470	4170	2590	14300	3600	13400	14400	3770	14400
1907	1960	846	1240	1860	736								
1920										1530	1990	4680	
1921	1320	2040	691	2890	1520	788	788	788	788	3990	1430	1030	3990
1922	1100	1480	2140	1240	2710	1740	3280	827	460	2540	371	756	3280
1923	1890	756	4520	995	1520	659	623	556	891	344	1160	1160	4520
1924	3770	788	1030	1700	1030	724	3990	623	4190	1470	808	3790	4190
1925	2580	556	956	589	691	371	318	429	429	267	589	292	2580
1926	5050	1200	879	769	298	420	543	1160	607	265	1700	1740	5050
1927	429	756	371	399	399	491	788	491	256	371	399	1610	1610
1928	1030	833	769	1200	1430	1030	1030	12700	8590				
1929				885	1210	1250	1160	636	969	13400	2660	1300	
1930	827	930	1750	603	585	390	262	827	401	252	559	1760	1760
1931	2000	249	1260	2380	1520	423	566	1160	242	341	309	1180	2380
1932	2560	1090	1470	808	1430	982	598	1710	580	9880	2910	2430	9880
1933	1160	1410	1030	1780	3840	576	820	808	506	405	283	371	3840
1934	450	930	3610	3510	430	531	711	1100	3230	2820	4610	3550	4610
1935	4410	1210	2240	1180	756	398	1800	756	2330	1490	1890	685	4410
1936	5620	1580	2920	4720	645	633	479	1240	1120	6360	523	3100	6360
1937	4210	1100	665	736	1990	1170	368	1210	1120	8720	1250	704	8720
1938	1140	506	801	536	2300	1120	3020	1860	646	271	1270	930	3020
1939	2390	4270	1430	840	585	1320	1140	4200	326	524	292	451	4270
1940	526	2040	510	833	463	672	801	43200	1830	426	1490	2210	43200

Yadkin River at Wilkesboro, N. C.

Maximum Daily Discharge in Million Gallons per day (cont.)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1941	568	530	749	1150	493	782	2850	691	365	506	423	1270	2850
1942	814	1960	3710	541	3890	2450	736	1070	5170	463	452	3670	5170
1943	2510	1780	1560	3420	2050	866	2380	969	419	275	1290	827	3420
1944	1180	2400	2770	1010	943	464	885	430	5320	2950	646	510	5320
1945	1180	1680	646	1370	1160	404	801	638	10700	743	775	1450	10700

Summary of Period 1921-45

Max.	5620	4270	4520	4720	3890	2450	3990	43200	10700	13400	4610	3790	43200
Min.	429	249	371	399	298	371	262	429	242	252	283	292	1610
Mean	2030	1336	1603	1443	1356	826	1229	3203	2059	2461	1170	1532	6310

Summary of Record

Max.	7490	12000	4520	4720	5980	4170	8330	43200	10700	13400	14400	4680	43200
Min.	429	249	371	399	298	371	262	429	242	252	283	292	1610
Mean	2170	1705	1662	1490	1543	1112	1607	3427	2088	2735	1594	1749	6636

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1903				1150	801	575	432	380	329	317	293	249	
1904	200	200	329	333	333	397	333	397	273	231	244	244	200
1905	119	217	397	364	349	273	329	305	282	282	260	271	119
1906	380	607	607	607	463	463	607	685	924	963	808	640	380
1907	672	575	546	546	488								
1920										292	292	399	
1921	460	623	523	491	460	344	318	292	243	231	280	305	231
1922	318	491	556	556	659	523	523	429	292	255	280	305	255
1923	305	344	371	399	371	280	243	243	231	187	198	267	187
1924	267	318	399	371	399	292	305	280	243	344	344	318	243
1925	491	429	371	318	267	195	153	112	132	138	169	153	112
1926	214	291	329	298	176	152	105	233	143	168	136	276	105
1927	245	245	224	234	245	245	214	214	146	149	256	253	146
1928	287	265	298	362	362	349	323	510	736				
1929			472	520	419	371	287	269	458	539	497		
1930	454	429	412	379	295	209	139	145	164	179	194	185	139
1931	209	179	209	342	306	232	229	194	139	125	141	162	125
1932	297	297	287	312	297	248	153	151	120	171	402	364	120
1933	441	446	457	498	470	352	214	165	180	174	174	168	165
1934	151	151	218	301	211	189	181	194	181	255	247	328	151
1935	386	406	413	510	402	247	240	265	255	236	247	271	236
1936	323	484	460	581	375	273	210	220	194	284	260	267	194
1937	704	602	481	451	393	280	220	200	227	249	415	380	200
1938	360	372	383	306	260	329	249	286	220	207	214	243	207
1939	271	527	484	420	329	264	267	239	194	168	178	181	168
1940	129	181	249	257	194	174	162	239	333	252	262	258	129
1941	329	258	249	287	172	145	284	238	160	148	187	190	148
1942	233	320	353	276	232	368	258	236	258	276	273	286	232
1943	395	426	380	456	473	292	452	282	211	203	214	168	168
1944	278	253	407	439	368	235	191	149	136	265	236	247	136
1945	296	254	368	320	311	190	169	180	163	344	307	331	163

Yadkin River at Wilkesboro, N. C.

Minimum Daily Discharge in Million Gallons per day (cont.)

Summary of Period 1921-45													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
Max.	704	623	556	531	659	523	523	510	736	458	539	497	255
Min.	129	151	209	234	172	145	105	112	120	125	136	153	105
Mean	327	358	370	385	342	273	247	239	223	228	256	267	172
Summary of Record													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
Max.	672	623	607	1150	801	575	607	685	924	963	808	640	380
Min.	119	151	209	234	172	145	105	112	120	125	136	153	105
Mean	329	364	334	421	366	294	272	267	254	260	278	283	179

## Yadkin River at Wilkesboro, N. C.

## Mean Weekly Discharge in Million Gallons per day

Week Ending	1903	1904	1905	1906	1907		1920	1921	1922	1923	1924	1925
Jan. 7		280	418	1130	1200			491	333	743	424	963
14		295	885	788	846			840	448	373	711	717
21		256	419	724	775			814	492	322	1330	788
28		346	297	2480	704			827	563	469	406	629
Feb. 4		279	321	1210	672			859	645	632	388	505
11		427	313	762	665			1170	808	623	387	483
18		307	509	659	621			930	898	563	327	528
25		521	1190	672	603			827	590	392	434	486
Mar. 4		425	749	872	885			659	879	448	620	455
11		1250	609	866	762			599	943	820	638	443
18		493	530	937	756			638	1050	2000	429	427
25		547	451	969	630			620	736	891	583	573
Apr. 1		525	417	1310	594			604	1270	487	433	421
8		406	435	904	724			580	917	506	711	371
15		427	840	930	698			519	685	608	643	400
22	1480	340	500	879	607			1140	698	529	898	396
29	1230	384	419	685	1110			1030	698	433	528	417
May 6	1110	579	419	756	730			1000	1390	430	539	443
13	1010	340	704	930	621			808	891	413	587	430
20	930	1520	1240	554	563			698	1340	724	497	409
27	859	587	534	576	551			698	885	581	537	325
June 3	950	982	406	572				576	911	762	404	269
10	1590	756	309	801				628	1180	448	446	248
17	775	631	301	2270				523	730	392	375	227
24	598	517	638	1280				440	736	366	333	225
July 1	711	1010	401	801				517	579	354	439	264
8	775	625	691	853				417	749	313	1650	249
15	632	495	2730	801				573	963	342	879	195
22	521	370	685	1320				483	1070	413	474	169
29	448	988	397	1290				408	659	271	441	202
Aug. 5	636	646	421	1520				353	614	450	388	152
12	485	820	1070	840				398	520	402	345	158
19	594	607	788	1800				484	577	291	356	146
26	456	885	530	1370				329	479	234	357	118
Sept. 2	465	461	402	4410				337	461	304	500	221
9	395	549	891	1320				282	396	331	266	138
16	377	395	369	1050				360	355	280	250	255
23	486	302	344	1310				302	318	288	411	152
30	351	286	287	1800				367	309	395	1830	146
Oct. 7	335	269	290	2440			717	311	331	236	756	160
14	859	250	508	1130			353	236	866	218	413	157
21	446	244	295	3370			333	240	384	226	370	203
28	342	240	307	1320			314	236	331	264	534	172
Nov. 4	333	271	287	995			333	1160	318	230	412	195
11	420	346	282	885			305	364	309	469	370	200
18	377	348	282	885			652	316	328	216	355	380
25	344	269	277	3560			364	380	298	239	472	203
Dec. 2	317	250	271	1010			762	444	296	344	359	178
9	319	385	820	879			827	464	331	587	1430	165
16	307	279	600	872			1610	333	359	322	637	176
23	353	273	1140	911			795	521	483	318	440	211
31	326	404	516	1140			743	385	390	309	493	229
Maximum		1520	2730	4410				1170	1390	2000	1830	963
Minimum		240	271	554				236	296	216	250	118

Yadkin River at Wilkesboro, N. C.

Mean Weekly Discharge in Million Gallons per day (cont.)

Week Ending	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937
Jan. 7	272	349	399	452	652	685	885	808	247	470	1570	2090
14	231	300	553	452	537	340	801	645	287	1340	988	827
21	1350	295	492	420	541	267	397	496	202	514	1720	2020
28	384	300	483	420	491	226	335	568	192	1330	698	1070
Feb. 4	801	276	436	369	541	208	1010	488	208	516	612	1010
11	553	284	536	904	616	207	496	730	184	435	665	808
18	324	258	446	517	468	218	370	685	179	724	988	685
25	436	530	537	485	439	201	336	685	184	477	610	749
Mar. 4	428	336	397	1400	423	221	307	498	1000	457	516	652
11	351	276	410	1230	911	260	517	665	552	521	492	632
18	355	293	494	1420	527	235	311	536	242	1050	1020	576
25	351	249	486	969	489	318	601	724	337	659	885	529
Apr. 1	470	266	474	646	444	866	588	536	1270	1070	975	485
8	428	276	530	585	488	782	458	587	351	704	1810	568
15	514	300	685	578	433	402	548	607	1420	636	1090	536
22	430	258	459	632	417	524	367	1180	775	685	698	472
29	314	267	672	665	336	556	336	608	417	590	627	586
May 6	282	334	640	749	364	340	620	743	329	510	572	539
13	238	329	475	678	357	589	532	1290	278	475	511	475
20	260	300	474	685	399	356	390	730	298	450	466	808
27	207	311	924	698	317	743	345	532	264	518	415	455
June 3	232	331	711	592	311	347	333	499	291	393	373	427
10	209	307	495	572	297	326	260	382	340	352	417	403
17	174	311	496	493	286	315	375	430	234	320	430	394
24	205	262	678	510	268	298	490	403	331	322	338	578
July 1	204	284	615	756	228	257	415	442	211	262	291	301
8	159	331	423	525	193	311	258	361	233	522	363	306
15	123	275	549	494	174	333	199	306	466	685	295	309
22	110	240	584	466	199	342	193	330	294	448	320	260
29	312	269	426	428	175	330	284	340	282	917	241	276
Aug. 5	293	252	552	559	163	365	610	297	340	377	281	241
12	711	282	943	379	195	328	512	181	366	309	587	302
19	386	310	3980	381	238	244	277	302	346	342	311	284
26	345	289	814	401	345	514	205	244	415	573	344	627
Sept. 2	310	255	833	309	193	225	156	264	286	307	245	665
9	373	203	2920	415	195	197	163	337	229	1100	309	583
16	232	187	1050	349	210	152	143	284	652	525	238	376
23	178	176	1690	449	271	149	211	220	415	333	220	256
30	165	163	924	550	243	172	298	186	317	287	362	249
Oct. 7	207	257	614	2900	187	144	324	207	898	271	336	602
14	237	282	517	553	195	149	221	180	504	260	1120	401
21	216	293	517	519	207	135	2210	234	318	257	2130	2290
28	189	292	840	1010	198	134	514	212	280	251	506	1030
Nov. 4	182	329	530	711	220	185	917	196	309	490	393	627
11	172	332	404	570	230	147	801	225	312	276	393	463
18	539	308	452	975	373	150	485	193	260	678	379	749
25	399	341	484	859	266	205	629	182	366	328	311	441
Dec. 2	440	306	432	665	228	162	545	176	1790	371	276	529
9	352	775	420	632	589	255	377	185	611	309	447	435
16	366	300	452	534	270	348	601	176	395	459	433	390
23	349	396	452	769	258	411	537	220	391	348	576	406
31	1010	424	338	632	324	363	1570	198	349	292	814	531
Maximum	1350	775	3980	2900	911	866	2210	1290	1790	1340	2130	2290
Minimum	110	163	388	309	163	134	143	176	179	251	220	241

Yadkin River at Wilkesboro, N. C.

Mean Weekly Discharge in Million Gallons per day (cont.)

Week Ending	1938	1939	1940	1941	1942	1943	1944	1945			
Jan. 7	472	348	193	496	508	619	566	724			
14	421	342	232	371	302	441	312	466			
21	383	342	268	366	341	685	578	397			
28	594	310	175	386	306	840	311	342			
Feb. 4	438	1200	194	339	382	840	278	301			
11	391	1510	234	289	596	1020	384	318			
18	411	1370	371	375	665	622	937	561			
25	452	625	730	276	460	484	724	924			
Mar. 4	429	1190	324	276	382	424	4920	533			
11	537	853	304	499	1270	448	659	504			
18	556	632	323	437	576	543	620	389			
25	444	521	277	322	451	950	1000	413			
Apr. 1	389	517	349	352	550	685	1290	477			
8	421	641	330	572	373	494	592	413			
15	426	471	409	366	384	525	642	337			
22	390	517	437	309	307	1270	540	762			
29	337	547	401	371	287	639	517	598			
May 6	306	441	302	271	279	502	488	452			
13	273	406	253	304	245	924	463	375			
20	328	373	206	222	808	685	483	568			
27	374	393	247	192	1620	698	463	422			
June 3	1020	698	328	189	486	504	408	333			
10	429	545	341	182	678	450	407	314			
17	489	331	455	326	1270	420	349	287			
24	611	335	395	158	477	355	291	275			
July 1	412	342	205	265	749	493	248	213			
8	334	476	330	995	470	583	351	243			
15	376	539	344	891	361	1320	470	228			
22	1050	452	311	1740	269	711	282	329			
29	1450	354	249	665	346	595	222	426			
Aug. 5	853	293	377	447	346	433	274	387			
12	950	387	443	387	389	379	282	235			
19	431	1090	8790	282	584	527	217	253			
26	341	544	801	337	548	290	163	352			
Sept. 2	306	410	1880	252	294	303	325	202			
9	368	283	704	271	1560	298	172	274			
16	315	238	490	197	580	225	198	937			
23	382	224	399	174	313	291	385	3380			
30	242	203	371	198	840	231	1010	557			
Oct. 7	242	280	324	180	366	213	538	528			
14	225	203	318	159	346	210	375	413			
21	222	194	312	160	314	232	879	382			
28	231	178	262	228	332	231	433	460			
Nov. 4	218	182	545	251	324	224	284	346			
11	557	185	292	256	297	534	252	317			
18	280	181	406	193	278	260	256	359			
25	564	243	295	223	313	229	287	497			
Dec. 2	332	200	306	200	331	223	437	414			
9	282	196	269	461	428	245	346	749			
16	286	193	314	313	377	216	324	462			
23	260	235	352	271	309	211	279	387			
31	448	289	1160	555	1200	444	320	859			
Maximum	1450	1510	8790	1740	1620	1320	4920	3380			
Minimum	218	178	175	158	245	210	163	202			

Yadkin River at Yadkin College, N. C.

Location.- Water-stage recorder, lat. 35°51'25", long. 80°23'25", at bridge on U. S. Highway 64, 1½ miles south of Yadkin College, Davidson County, and 6¼ miles downstream from Reedy Creek.

Drainage area.- 2,280 square miles.

Records available.- July 1928 to date.

Average discharge.- 17 years, 1,867 million gallons per day.

Extremes.- 1928-45: Maximum discharge, 51,800 million gallons per day Aug. 15, 1940 (gage height, 33.75 feet); minimum, 260 million gallons per day Sept. 20, 1932 (gage height, 0.05 foot). Maximum stage known, 35.0 feet sometime in July, 1916, from floodmarks.

Remarks.- Slight diurnal fluctuation caused by small power plant 10 miles above station.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1928								5078	4393	2132	1602	1473	
1929	1589	2733	4283	2313	2339	2242	1809	1634	1415	5246	2784	2235	2552
1930	2106	2119	2041	1576	1292	1092	571	736	652	545	814	1273	1229
1931	1486	885	1408	2545	1990	943	1363	1776	736	529	547	1195	1286
1932	2720	1906	2151	1822	1492	1499	885	1227	743	3689	3637	3282	2091
1933	2481	2610	2177	2222	2183	1111	943	1124	872	685	698	782	1484
1934	885	1079	2972	2746	1214	1337	1395	1563	1809	1499	1726	2664	1745
1935	2945	2111	3135	2606	1690	1213	2089	1201	1533	1037	1371	1132	1838
1936	5579	3403	3301	4220	1689	1364	1159	1433	931	3220	1187	2103	2466
1937	6841	2828	2103	2187	2179	1561	1198	2374	1607	5205	2127	1731	2669
1938	1932	1764	1818	1563	1568	1938	2623	2018	1113	829	1850	1533	1713
1939	1659	4555	2974	1975	1485	1651	2022	2964	918	803	823	1005	1887
1940	1024	1575	1351	1780	1290	1547	1480	5048	1811	999	1579	1503	1751
1941	1450	1193	1373	1401	866	894	3118	993	720	519	678	1271	1210
1942	1165	1895	2359	1158	2437	2351	1321	1917	2437	1295	1118	2141	1799
1943	2773	2710	2581	2579	2311	1750	3140	1433	914	800	968	1008	1912
1944	1602	2286	3620	2572	1738	1303	1959	1050	1689	3124	1483	1860	2025
1945	2174	2514	1985	2003	1847	1162	1600	1114	4350	1667	1868	2829	2087
Max.	6841	4555	4283	4220	2437	2351	3140	5078	4393	5246	3637	3282	2669
Min.	885	885	1351	1158	866	894	571	736	652	519	547	782	1210
Mean	2377	2245	2449	2192	1742	1468	1687	1927	1591	1879	1492	1723	1867

Yadkin River at Yadkin College, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1928								30300		5830	2020	1830	
1929	2450	10500	13600	4420	4050	5680	3370	2980	3500	41400	7240	3910	41400
1930	3580	5410	6340	2520	2020	1830	866	1460	1090	691	1470	5400	6340
1931	6650	1050	5060	8140	5940	1340	2370	5360	1870	1030	749	4480	8140
1932	9950	4500	8530	3490	3210	3130	1960	3750	2200	31500	17400	10300	31500
1933	5570	4490	4610	3650	5810	1830	2090	2280	1800	1290	820	1520	5810
1934	1520	5140	13000	11000	2430	4380	2930	4480	8980	6590	14800	15800	15800
1935	10100	6100	11200	5100	2230	1710	6460	2100	5160	3880	4870	1970	11200
1936	29100	13700	14800	19800	2160	2230	2360	3550	3280	18900	1550	6200	29100
1937	20000	5230	2420	6850	7880	3300	1910	11000	3910	32600	3700	2060	32600
1938	4060	2230	3170	2550	5610	3730	9820	5140	1600	1070	7430	4450	9820
1939	6590	11200	10100	2660	1840	3740	5370	20900	1300	1280	1190	2220	20900
1940	3560	5260	2260	4550	6050	2910	5230	40200	8270	1160	4470	5770	40200
1941	2180	2241	2370	3090	1640	2090	8790	2290	2180	1160	1160	3270	8790
1942	2160	6850	9690	1620	14500	7240	3250	5350	16300	2380	1480	11400	16300
1943	14400	7750	6180	12700	4880	3230	6520	4250	1320	969	2590	2750	14400
1944	5640	9040	12400	7430	4720	2680	7620	2130	12500	20500	3880	4730	20500
1945	6120	6460	3810	5170	4550	2040	3670	2170	29400	2980	4020	7170	29400
Max.	29100	13700	14800	19800	14500	7240	9820	40200	29400	41400	17400	15800	41400
Min.	1520	1050	2260	1620	1640	1340	866	1460	1090	691	749	1520	5810
Mean	1978	6303	7620	6161	4678	3123	4387	8316	6156	9733	4491	5291	20128

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly M. n.
1928								891		1700	1470	1340	
1929	1380	1280	2280	1890	1760	1510	1380	1150	1020	1570	1830	1760	1020
1930	1760	1570	1510	1310	956	691	412	424	459	464	575	563	412
1931	891	808	808	1280	1120	691	621	724	505	418	494	540	418
1932	1280	1210	1150	1120	988	840	546	557	377	659	1700	1410	377
1933	1830	1760	1700	1700	1310	775	665	678	505	536	634	652	505
1934	594	599	937	1230	879	672	749	820	756	853	879	1390	594
1935	1490	1450	1520	1780	1390	917	866	866	866	840	917	756	756
1936	982	1780	1710	2160	1260	982	801	866	646	1030	1030	1030	646
1937	2490	2100	1780	1650	1450	1160	833	866	950	1030	1600	1470	833
1938	1470	1550	1450	1230	969	1230	969	969	788	736	795	1070	736
1939	1200	2290	1840	1620	1260	937	904	930	711	665	724	724	665
1940	484	646	1050	1070	801	827	665	975	1070	898	1010	930	484
1941	1180	1010	982	982	646	572	1200	633	472	433	567	610	433
1942	652	1100	1180	937	808	1150	756	833	963	1040	1000	1090	652
1943	1320	1510	1410	1580	1580	1100	1420	943	736	736	814	580	580
1944	943	891	1450	1640	1320	840	866	711	691	1230	1160	1380	691
1945	1410	1270	1510	1290	1350	866	762	736	711	1360	1380	1290	711
Max.	2490	2290	2280	2160	1760	1510	1420	1150	1070	1700	1830	1760	1020
Min.	484	599	808	937	646	572	412	424	377	418	494	540	377
Mean	1256	1343	1427	1439	1167	927	848	810	719	900	1032	1032	618

Yadkin River at Yadkin College, N. C.

Mean Weekly Discharge in Million Gallons per day

Week Ending	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937
Jan. 7		1630	1630	2420	2910	3280	930	2120	7560	11800
14		1780	1890	1610	4840	2690	1160	3680	3980	3480
21		1510	2470	1180	1690	2000	827	1760	9560	8850
28		1490	1920	988	1350	2140	736	4530	2780	4050
Feb. 4		1380	2030	872	3050	1930	756	1990	2020	4330
11		3550	2950	866	2250	2760	724	1580	3060	2820
18		2040	1890	885	1740	2930	711	3140	6100	2450
25		1960	1670	950	1410	2780	724	1830	2590	2840
Mar. 4		6410	1560	950	1210	1940	4480	1750	2020	2400
11		5000	3060	1030	3420	2140	3100	1960	1840	2250
18		4470	1890	904	1340	1930	1050	4820	4010	2090
25		3370	1820	1410	1980	2890	1460	2480	3990	2000
Apr. 1		2680	1620	3070	2580	1890	5400	4260	4060	1840
8		2110	1850	4310	1880	1920	1930	3070	8200	2030
15		1960	1630	1750	2560	2170	4740	2480	4440	1910
22		2580	1490	1500	1420	2910	2780	2530	2490	1710
29		2420	1370	2370	1340	2000	1510	2270	2250	3130
May 6		3150	1270	1270	1800	2530	1180	1770	2060	2070
13		2400	1290	2600	1630	2600	1000	1710	1830	1830
20		1960	1430	1300	1480	2430	1460	1620	1660	3350
27		2170	1180	3090	1190	1490	1200	1800	1490	1760
June 3		2020	1180	1270	1090	1510	1400	1370	1290	1630
10		2130	1300	982	885	1180	2270	1360	1320	1600
17		2060	1050	917	2140	1120	1060	1300	1770	1320
24		1690	1160	911	1770	879	1010	1200	1220	2040
July 1		3140	795	827	1380	1080	846	937	1120	1280
8		1800	525	1500	1010	872	924	1140	1400	1300
15	2270	1890	523	1200	685	769	2050	2610	930	1310
22	1490	1690	698	1340	982	904	1120	1930	1210	1040
29	1310	1660	488	1650	775	1020	1300	2930	937	1110
Aug. 5	1100	2310	591	1980	1420	1460	1410	1400	1240	1110
12	4040	1430	820	1610	2060	859	924	1060	2100	1340
19	12400	1410	698	994	898	1560	1320	1030	1360	1910
26	3500	1700	898	2640	924	1040	2345	1640	1280	3910
Sept. 2	2670	1390	613	1100	573	820	1920	963	1100	3550
9	6780	1390	539	872	840	1080	1210	2440	1010	2140
16	2790	1190	640	596	490	1150	1320	1930	963	1490
23	5920	1780	820	560	535	691	3100	1050	736	1050
30	2450	1380	652	904	1160	530	1740	904	1060	1250
Oct. 7	2260	14900	500	525	1630	808	2060	924	2890	3330
14	1820	2020	514	533	1050	561	2190	866	2350	1750
21	1820	1650	568	477	10600	711	1120	859	6850	9820
28	2750	3820	554	464	2280	678	982	879	1620	6080
Nov. 4	1760	2190	638	665	5570	652	917	1680	1200	3380
11	1650	2130	717	535	3770	749	1190	1100	1270	1850
18	1530	3310	1020	513	2120	691	924	2140	1300	2620
25	1650	3550	898	596	3090	704	1250	1140	1100	1720
Dec. 2	1510	2230	704	528	2290	659	7620	1250	1160	2200
9	1450	2620	1930	801	1510	717	2880	1070	1650	1790
16	1510	1870	1070	1210	2620	685	1520	1350	2010	1550
23	1540	2310	904	1600	2180	943	1620	1130	3040	1580
31	1380	2210	1330	1330	6780	814	1420	969	2020	1900
Maximum		14900	3060	4310	10600	3280	7620	4820	9560	11800
Minimum		1190	488	464	490	530	711	859	736	1040

Yadkin River at Yadkin College, N. C.

Mean Weekly Discharge in Million Gallons per day (cont.)

Week Ending	1938	1939	1940	1941	1942	1943	1944	1945		
Jan. 7	1990	1560	924	1870	1230	2360	2430	3200		
14	1870	1520	995	1300	937	1480	1170	2310		
21	1540	1520	1670	1320	1390	2580	1980	1912		
28	2330	1340	685	1380	1120	2440	1100	1590		
Feb. 4	1890	3570	711	1230	1190	4840	943	1360		
11	1630	4370	1250	1070	1860	4450	1230	1440		
18	1640	6410	1180	1470	2730	2550	3460	2850		
25	1950	2790	2870	1100	1730	1760	3150	3970		
Mar. 4	1710	6030	1380	1040	1270	1540	1790	2180		
11	2050	3050	1360	1590	4610	2270	2640	2250		
18	2080	2860	1520	1500	2070	2130	3150	1640		
25	1710	2130	1170	1180	1500	4080	4430	1670		
Apr. 1	1490	2000	1390	1410	1760	2400	5410	2350		
8	1560	2170	1330	1940	1290	1770	2270	1620		
15	1830	1850	1700	1360	1300	1860	3410	1380		
22	1580	1880	2220	1100	1070	4570	2450	2820		
29	1350	1960	1910	1260	956	2290	2110	2250		
May 6	1180	1720	1270	975	930	1710	1600	1640		
13	1050	1540	1060	1110	943	2130	2330	1390		
20	1290	1390	891	814	2000	2360	1470	2560		
27	1640	1350	1160	704	6120	2980	1740	1820		
June 3	3090	1940	2450	704	1600	2040	1330	1580		
10	1720	2220	1410	691	2340	2020	1490	1230		
17	1590	1410	1770	1180	4060	1930	1630	1180		
24	2010	1470	1650	621	1600	1320	1150	1230		
July 1	2050	1200	975	1260	1620	1810	898	975		
8	1770	2280	1230	2670	1790	2950	1010	1230		
15	1210	2560	1580	3080	1210	4740	2670	890		
22	2240	1450	1830	5560	1010	2910	3340	1650		
29	5470	1760	898	1890	1280	2310	1180	2130		
Aug. 5	2790	1480	2060	1430	1000	1680	1250	2130		
12	3280	1590	1130	1050	1540	1400	1400	1190		
19	1640	5350	15400	743	2840	1900	866	898		
26	1160	4170	2650	1010	2630	995	775	1080		
Sept. 2	1100	1490	3730	724	1120	1380	950	840		
9	1270	1120	2100	1200	4960	1020	898	891		
16	1160	930	1520	579	2010	808	1140	2790		
23	1160	808	1210	513	1280	950	2200	12900		
30	891	724	1170	627	1900	846	2770	1920		
Oct. 7	911	1020	995	547	1320	769	5540	1780		
14	775	795	1050	462	1160	750	1490	1640		
21	756	724	1010	455	1380	859	3350	1440		
28	898	711	943	477	1380	801	2870	1890		
Nov. 4	795	756	1630	762	1230	827	1340	1450		
11	1900	775	1140	738	1100	1280	1220	1390		
18	1060	743	2470	601	1040	943	1230	1540		
25	3170	975	1160	643	1100	859	1300	2310		
Dec. 2	1710	814	1100	641	1280	840	2520	2470		
9	1600	820	982	1360	1780	891	1710	3430		
16	1280	814	1000	1190	1490	820	2520	1840		
23	1110	969	1320	924	1170	782	1520	1440		
31	2130	1420	2670	1740	3990	1510	1600	4620		
Maximum	5470	6410	15400	5560	6120	4840	5540	12900		
Minimum	756	711	685	455	930	749	775	840		

Yadkin River near Salisbury, N. C.

Location.- Staff gage at highway bridge 1,000 feet upstream from Southern Railway bridge and 6 miles northeast of Salisbury, Rowan County.

Drainage area.- 3,400 square miles.

Records available.- September, 1895, to December, 1909; September, 1911, to September, 1927.

Extremes.- 1895-1909, 1911-1927: Maximum discharge, 78,200 million gallons per day July 18, 1916 (gage height, 23.8 feet); minimum, 360 million gallons per day Jan., 1899 (gage height, 1.00 foot).

Remarks.- During low stages flow may be somewhat affected by developed powers on river and tributaries.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sent.	Oct.	Nov.	Dec.	Yearly Mean
1895										921	1295	1733	
1896	2897	5050	2243	3386	1620	2041	7481	1558	1994	2017	3363	3900	3129
1897	2609	7435	6790	5014	3731	3651	3114	1901	1153	2298	1749	1994	3454
1898	2235	1264	2015	1923	1891	1998	2053	3350	5360	2850	1428	2104	2306
1899	4064	8682	15440	6347	4012	3116	2392	1522	1612	1438	1370	1755	4313
1900	2846	4541	5932	5607	2152	3999	2152	1560	1789	2422	2853	3319	3264
1901	3413	2266	3826	8908	7203	7074	5462	10670	4370	3305	2379	8081	5579
1902	3668	5661	6304	3896	2926	4974	1921	2008	1855	2269	2476	4698	3555
1903	5440	8191	10210	7862	3484	4810	2501	3065	2806	1638	1642	1460	4425
1904	1438	2682	2698	1531	2275	3081	2341	2864	1535	819	1247	1699	2017
1905	2589	4591	2227	2683	3861	1506	5061	4314	1538	1435	1174	4207	2932
1906	6654	2707	3889	2991	2235	4025	4871	7040	4929	4974	3966	3049	4277
1907	3243	2351	2972	3379	2119	4360	2422	1912	2332	1460	2913	5304	2897
1908	5581	6783	4419	3463	3140	3010	3605	5892	2933	4115	3056	4264	4188
1909	3805	3637	4057	3618	6589	7881	3314	3895	1938	1776	1667	2067	3687
1910	2698	3938	3670	1955	2120	4173	2340	1882	2455	2125	1275	1775	2534
1911	2832	2441	2634	3786	1494	1242	1051	1365	1660	2817	2054	3165	2212
1912	2280	3773	8979	3889	5504	2293	2707	1408	2649	1441	1906	1515	3194
1913	2830	2261	7752	3779	3643	2151	1680	3133	2655	2390	2171	2926	3114
1914	3114	4115	2894	3547	1906	1324	1550	1337	1085	2888	1621	7752	2761
1915	7300	5278	3269	2461	2558	3592	1641	4096	2920	3960	2526	4696	3691
1916	3236	5930	2552	2494	2758	3954	13370	3876	2261	2416	1802	2125	3898
1917	2997	3224	7171	3682	2183	1977	3340	1848	3295	1421	1363	1370	2822
1918	3708	2758	1880	3540	2306	1479	1615	1634	1634	3404	3133	6053	2816
1919	5982	4283	6292	3514	5317	3295	7429	2578	1557	1899	1880	2565	3882
1920	2410	3534	4341	6318	2274	2707	2274	4193	2610	1925	3010	6169	3481
1921	5052	6525	3023	4406	3695	2280	2119	1389	1350	1195	2532	1654	2935
1922	2067	4761	5420	3385	5103	4251	3798	2397	1505	1886	1292	1744	3102
1923	2513	2894	7106	3398	2855	1751	1589	2267	1776	1098	1628	2590	2574
1924	4264	2739	2997	3385	2817	1983	3753	2145	3482	3811	1712	3366	3037
1925	5924	3068	2578	2061	2332	1240	1014	839	814	1072	1370	1156	1956
1926	2965	3831	2339	2242	1234	969	1609	1402	1008	775	1828	2985	1932
1927	1776	3895	3295	2022	1550	1802	1938	1479	1001	1628	1163		
Max.	7300	8682	15440	8908	7203	7881	13370	10670	5360	4974	3966	8081	15440
Min.	1438	1264	2015	1531	1234	969	1014	839	814	775	1163	1156	775
Mean	3576	4222	4726	3765	3090	3062	3235	2838	2246	2178	2026	3226	3225

Yadkin River near Salisbury, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1895										969	2600	6590	
1896	7040	15600	3480	18900	3910	6110	41500	3910	20800	20200	15000	14700	41500
1897	7750	22500	16200	20500	9170	12800	7560	3690	2100	16700	4600	3690	22500
1898	6000	1840	8910	6850	7820	1660	6720	8330	51700	10700	3100	8140	51700
1899	30100	29600	69100	17900	7300	8330	7040	3230	6780	3680	2390	5750	69100
1900	9820	24400	26200	31200	5460	15600	3840	3300	8140	14700	19000	14100	31200
1901	17200	4000	22800	52300	45800	19600	16800	28500	10300	8660	4120	67800	67800
1902	16300	17600	21100	6120	3810	36000	3370	6250	6850	6980	7880	10900	36000
1903	24600	24900	49200	25600	6720	21000	5140	8140	13600	5360	3460	2840	49200
1904	2660	8400	8660	2200	12500	11800	8270	7750	3730	885	1800	3530	12500
1905	10300	17800	3420	8270	9240	2660	21800	14800	3230	4640	1320	20300	21800
1906	22400	4370	9430	7490	4370	10600	13900	33200	25100	23500	20000	4250	33200
1907	14700	4170	4900	8400	3050	13700	5160	3710	17400	2260	14000	24500	24500
1908	21600	31100	14300	6720	5920	11400	9630	43800	9880	14300	7880	18500	43800
1909	8140	8400	11400	10500	35100	28900	7880	18100	3710	3370	2260	5670	35100
1910	9040	9690	16200	3880	6780	25800	7110	4520	9690	9690	1420	4520	25800
1911	12900	7110	5170	12900	2260	2260	2970	7110	5670	16000	3710	11100	16000
1912	4900	11100	66500	9300	37000	3260	7560	2260	15000	2070	8140	1890	66500
1913	14300	7880	49900	15400	16700	3480	4170	6720	8980	7880	8140	12400	49900
1914	15700	11800	6190	10200	3260	1890	3940	3940	1640	17100	4660	32400	32400
1915	35100	16000	6190	3260	5410	21200	2840	21200	14700	15900	12000	24900	35100
1916	6460	35000	3710	5170	18700	18300	69100	7240	5170	12000	2070	3480	69100
1917	7750	6980	28000	15900	2840	3480	7240	5940	22200	3710	2450	1810	28000
1918	11600	6460	3260	14200	3940	2840	3260	9500	3480	22200	12300	27300	27300
1919	29200	11000	23400	7750	10100	9500	46600	8010	2520	4720	5210	10300	46600
1920	6720	13200	9500	24200	3620	8330	4750	16300	6460	8010	13900	20700	24200
1921	17700	27600	3620	15200	6980	3400	4290	2200	2730	5320	15800	3060	27600
1922	5320	15400	12100	6590	16200	11500	10900	9370	3720	7620	1360	3940	16200
1923	7620	5570	42600	11500	6590	2840	3500	6850	4610	1650	6590	13400	42600
1924	23100	7620	5320	8530	5810	3500	13400	7880	30200	40300	4160	19400	40300
1925	15800	7880	5570	3060	9370	1560	1560	2070	1410	2840	4610	2540	15800
1926	21700	11100	4380	4840	1490	1560	4840	2440	2070	1490	8790	13100	21700
1927	3720	15700	6850	2840	2540	4160	5320	4160	2840	5570	3940		
Max.	35100	35000	69100	52300	45800	36000	69100	43800	51700	40300	20000	67800	69100
Min.	2660	1840	3260	2200	1490	1560	1560	2070	1410	885	1320	1810	12500
Mean	13980	13810	17740	12000	9992	10280	11310	9826	10200	9726	6929	13050	36290

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1895										904	846	1060	
1896	1060	1500	1500	1720	846	846	1060	646	646	846	1280	1940	646
1897	1680	3000	3000	2550	2100	1490	1680	1140	711	581	581	1490	581
1898	1360	904	1110	1000	1000	904	711	1110	904	1110	1110	1000	711
1899	362	2000	4460	4200	2580	2000	1450	937	937	1030	1160	1160	362
1900	924	924	2640	1450	1620	1940	1330	1210	1050	1330	1690	2020	924
1901	1890	1560	1670	2700	2580	2930	2470	2350	2820	2350	2000	2120	1560
1902	3060	2960	3480	3170	2240	1660	1280	943	1020	872	1370	2550	872
1903	2420	3250	4190	4190	2730	2530	1200	1200	1200	1050	1120	969	969
1904	840	1310	1580	1260	1260	1200	1090	1200	885	678	885	982	678
1905	801	1260	1580	1380	1450	1090	1140	1510	1140	1030	1090	1140	801

Yadkin River near Salisbury, N. C.

Minimum Daily Discharge in Million Gallons per day (cont.)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1906	1930	2020	2110	1670	1510	1510	1760	2210	2690	2590	2590	2110	1510
1907	1980	1980	1890	2070	1550	1890	1550	1230	1010	1090	1390	1630	1010
1908	2260	2260	3050	2640	2170	1720	1720	1390	1550	1550	2260	2070	1390
1909	2640	2260	2640	2640	2260	3260	1890	1720	1390	1390	1470	1010	1010
1910	1230	2070	1740	1490	1360	1100	1230	1100	1030	1160	1100	1230	1030
1911	1550	1490	1360	1810	1000	840	711	646	808	808	904	1250	646
1912	1330	1480	2640	2450	2260	1560	1330	988	930	1120	1250	1250	930
1913	1400	1560	1720	2260	1560	1400	988	1120	1120	1050	1400	1400	988
1914	1720	2260	2170	2260	1400	1050	749	730	840	808	1090	2450	730
1915	2740	2840	2450	1980	1810	1330	1050	1090	1250	1720	1560	1560	1050
1916	2260	2450	2070	1890	1330	1560	1560	2260	1720	1560	1640	1480	1330
1917	1890	1890	3050	2070	1720	1330	1250	988	1050	1050	1120	866	866
1918	1050	1810	1480	1330	1560	988	988	1120	1050	879	1690	1770	879
1919	2710	2710	3130	2520	3330	2330	1770	1690	1210	1270	1490	1560	1210
1920	917	2010	2010	2600	1600	1600	1240	1180	1600	1380	1450	2970	917
1921	2450	3620	2760	2450	2350	1600	1360	1060	904	904	1430	1290	904
1922	1290	2100	2510	2300	2300	2000	2100	1450	1110	1060	1230	1290	1060
1923	1500	1650	2000	2000	1820	1230	1010	1230	1010	814	1060	1500	814
1924	1500	1650	2000	2000	1910	1430	1360	1230	1010	1410	1340	1410	1010
1925	2440	2250	2070	1730	1410	995	646	452	471	546	872	646	471
1926	1120	1560	1560	1410	872	698	527	756	546	596	698	1120	527
1927	1270	1410	1810	1730	1120	995	814	756	596	646	756		
Max.	3060	3620	4460	4200	3330	3260	2470	2350	2820	2590	2590	2970	4460
Min.	362	904	1110	1000	846	698	527	452	546	546	581	646	362
Mean	1674	1999	2295	2154	1769	1531	1282	1208	1132	1127	1301	1509	916

## Yadkin River near Salisbury, N. C.

## Mean Weekly Discharge in Million Gallons per day

Week Ending	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906
Jan. 7		2630	1920	1460	6520	1050	2660	6910	10900	1270	1910	8850
14		3510	1890	1360	7240	3540	6170	3620	3950	1470	5120	3680
21		1780	2930	2010	5100	4150	3310	3170	3040	1330	2470	3380
28		3990	4030	3990	3300	3200	2150	4220	4150	1760	1330	10000
Feb. 4		5210	4300	1910	3640	1200	2170	6850	4500	1370	1450	5720
11		9500	9370	1250	16700	2830	2870	3970	10500	2600	1540	2860
18		3730	4820	995	5430	9370	2240	3110	12300	1690	3990	2300
25		2090	9560	1520	6010	5770	1860	5210	5550	4490	9880	2560
Mar. 4		2430	4570	1220	10900	9300	1730	12700	7300	2400	3900	2270
11		1820	9820	1400	9750	4610	1780	4940	6360	4000	2300	3220
18		2090	9240	2360	16200	5690	2760	5360	6460	2080	2520	4220
25		2440	5770	1570	27900	4790	1820	4260	18700	2450	1800	5180
Apr. 1		2530	3750	3820	9040	3680	10300	6910	9950	2430	1760	4380
8		7880	8660	2600	8460	2200	11700	4270	7620	1570	2610	3500
15		2160	5310	1400	6980	2040	3820	4020	12900	1630	4060	2730
22		1970	3750	1130	4900	13200	15800	3800	6120	1380	2580	3180
29		1820	2810	1950	5190	5850	5640	3270	4760	1540	1760	2000
May 6		2250	4760	1470	3910	2350	3420	3050	3970	1540	2090	2770
13		1720	2940	1810	5490	2010	4150	2860	3460	2040	6520	2720
20		1210	4500	1410	4250	1890	3280	3170	3240	3970	5430	1830
27		1500	3230	3130	3200	2640	16900	2950	2850	1960	2000	1670
June 3		1190	2870	1230	2790	1880	6520	2420	4080	3320	2180	1950
10		3260	6030	1050	2690	2220	4080	2090	8910	2520	1360	2350
17		1470	4430	1250	4780	3110	8790	8590	3900	2690	1200	7040
24		1380	2360	1370	2220	6210	9630	6350	2980	2160	1830	4220
July 1		2410	1740	1110	2620	5160	7240	3720	3700	4190	1380	3240
8		4150	2080	1150	2480	2260	4910	2110	3030	2100	3880	2870
15		22900	3690	1350	1760	2000	6410	2340	2960	1580	9750	3290
22		3190	3730	1510	1690	1620	7880	1620	2360	1290	4910	5650
29		2250	3400	3860	3200	2690	3000	1620	1510	2860	2610	8010
Aug. 5		1620	1780	2660	2690	1790	2610	1940	3880	3380	2330	6290
12		1380	1840	2860	1610	1360	12000	1470	2380	4590	6260	2640
19		2340	1960	3920	1420	1330	17100	3440	4520	3020	6650	7750
26		1440	1910	3900	1030	1920	9110	1610	2360	2360	3150	4640
Sept. 2		788	2070	3040	1650	1460	9170	1160	1860	1690	2220	16700
9		2480	1550	3760	1520	1250	4280	1480	2290	2580	2030	5120
16		1160	988	995	1410	1760	3440	2710	2070	1290	1470	3730
23		1000	769	1980	2380	2710	4430	1180	5610	1050	1430	3330
30		3730	943	15800	1090	1360	4520	2240	1400	969	1220	3460
Oct. 7	904	5050	840	4130	1100	1650	4830	2760	1380	827	1180	4980
14	930	1090	4080	1780	2270	1780	3310	2860	2360	846	1980	3290
21	943	1090	2640	1470	1320	1520	2950	1800	1670	769	1320	7620
28	904	1160	2070	4660	1180	4890	2500	1530	1380	814	1290	4740
Nov. 4	1130	2030	1940	1610	1640	2090	2440	2030	1210	891	1270	3040
11	1190	6460	1780	1230	1450	2240	2330	2040	1960	1290	1200	2730
18	1410	2030	1140	1490	1160	1750	2250	2000	1560	1670	1150	2710
25	1060	1720	827	1470	1160	1830	2520	3460	1850	1110	1190	8010
Dec. 2	1530	6180	2990	1230	1360	5930	2330	4320	1290	1030	1140	3120
9	1160	3480	2510	4280	1280	5610	2570	7170	1270	2390	2480	2710
16	1160	3510	1820	1110	2810	2280	6110	2960	1320	1320	4230	3090
23	1530	4830	1890	1740	1350	2660	4100	4960	1680	1230	7300	3650
31	3040	2130	1810	1630	1670	3000	19600	3130	1620	2000	3770	2820
Maximum		22900	9820	15800	27900	13200	19600	12700	18700	4590	9880	16700
Minimum		788	769	995	1030	1050	1730	1160	1210	769	1140	1670

## Yadkin River near Salisbury, N. C.

## Mean Weekly Discharge in Million Gallons per day (cont.)

Week Ending	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918
Jan. 7	6240	4990	4610	1540	6000	3020	1930	6590	6520	3850	3040	1270
14	2690	12300	3390	1820	2430	1960	1640	2480	12300	3120	2350	4220
21	2360	3470	4720	1690	1740	1800	1510	1940	8010	2410	2930	3560
28	2200	2620	2980	4220	1710	1720	4970	1940	4040	3220	2620	2860
Feb. 4	2140	2680	2550	4660	1550	3060	3980	2840	6850	13200	4720	7240
11	2260	3000	3210	2330	2970	1640	2030	4010	4190	4320	2250	2910
18	2110	15600	3320	4520	3180	2870	1870	2760	3530	2830	2020	2450
25	2170	5430	4410	5630	2010	5490	1990	6270	5100	3430	4880	2180
Mar. 4	3900	3950	4230	7110	1660	5170	4110	3040	4730	3900	6910	1760
11	3270	3860	3660	3640	2410	4770	2240	2440	4480	2750	10500	1780
18	3410	3460	3360	3090	3380	22200	19900	4150	3080	2380	4300	1630
25	2410	6520	3200	2110	2730	4580	4240	2550	2770	2220	6910	2380
Apr. 1	2120	4130	6230	1850	2550	7300	6120	2440	2570	2290	4950	1790
8	3770	4240	3020	1720	3270	4840	2680	2640	2800	2870	6200	1480
15	2970	2770	4760	1580	6010	2730	6520	4120	2700	3150	3840	3450
22	2200	3840	3640	2730	4110	3420	3580	5130	2260	2100	2490	6050
29	4740	3110	3090	1850	2220	4340	2440	2590	2130	2000	2510	3580
May 6	2870	3470	6720	1530	1800	2980	2020	2300	2110	1800	2590	2570
13	2360	3660	3490	3620	1520	9820	2000	2330	3260	1600	2380	2030
20	1920	2720	2480	1720	1770	8080	2080	1770	2030	1710	1980	2460
27	1720	3110	1450	1800	1220	2710	6720	1500	2560	5940	1980	2540
June 3	4520	2220	4130	1510	988	2290	4640	1550	8200	2340	1780	1600
10	3180	4270	13600	1450	1490	2330	2440	1410	3420	6590	1900	1400
17	6050	3190	7240	10700	1170	2400	1990	1350	2260	4410	2720	1210
24	2680	2770	7820	3250	1310	2050	1760	1170	1970	2980	1630	1910
July 1	3960	2040	4520	2240	1130	2400	2220	1200	1380	2460	1750	1340
8	2870	6210	3420	1740	879	3600	2280	1760	2040	3990	2020	1180
15	2290	3420	2860	2800	975	2790	1340	1750	1810	7490	2330	1180
22	2600	2200	2180	3600	1520	2970	1670	1980	1550	35100	4580	1550
29	1690	3070	4060	1590	879	1900	1300	930	1360	10700	5080	2140
Aug. 5	1830	2160	8720	1510	788	1540	3070	956	2090	4680	2890	3020
12	2140	2730	3390	2670	1670	1480	2870	1100	1390	5120	1710	1430
19	2120	1630	3110	1360	1050	1330	1890	1430	2890	3840	1490	3210
26	1980	10200	2000	2020	1010	1200	4170	917	4420	2780	1210	2160
Sept. 2	1230	11000	1790	2130	2510	1430	3170	2180	9040	2990	7690	1750
9	1490	5640	1670	4900	1670	1180	4430	1150	6120	2220	3810	1580
16	1750	2380	1730	2210	1210	2040	1540	1090	2140	2250	1570	1390
23	1230	1740	2500	1290	1960	1450	2990	1010	1510	2080	1210	2010
30	5230	2050	1910	1160	1500	6380	1760	1020	1340	2450	1280	1460
Oct. 7	1770	1650	1550	1220	963	1520	1340	2760	8660	1950	1190	1050
14	1490	4800	1940	4240	1210	1240	1460	1570	3250	1710	1320	969
21	1330	2000	1870	1770	5380	1650	3110	6060	2550	3990	1470	1030
28	1270	6000	1810	1640	4250	1430	3800	1790	2290	2240	1340	7300
Nov. 4	1600	5980	1620	1230	1320	1340	1800	1340	1750	1870	1970	8270
11	1590	2580	1680	1340	2390	3230	3800	1210	1600	1770	1330	2380
18	1620	4210	1770	1290	2330	1670	1980	2380	1770	1820	1300	2360
25	5790	2520	1630	1290	2030	1470	1590	1640	4970	1800	1300	2720
Dec. 2	3070	2270	1550	1190	1860	1390	3170	3590	2050	1830	1300	3120
9	1800	3440	1760	2300	1410	1690	3730	14100	1740	1710	1330	2040
16	7110	3220	3170	1550	1450	1400	1850	4270	1830	2260	1190	3840
23	4520	5180	1960	1340	4550	1420	1730	2780	7650	2150	1540	10900
31	8330	5580	1600	2030	5330	1540	3070	9240	7950	2400	1410	8080
Maximum	8330	15600	14500	10700	6010	22200	19900	14100	12300	35100	10500	10900
Minimum	1230	1630	1550	1160	788	1180	1300	917	1340	1600	1190	969

## Mean Weekly Discharge in Million Gallons per day (cont.)

Week Ending	1919	1920	1921	1922	1923	1924	1925	1926	1927	
Jan. 7	11600	1400	2810	1360	3600	2920	6980	1390	2420	
14	3400	1800	6090	2240	2090	2830	7300	1250	1520	
21	3700	1630	7750	1710	1530	9690	6910	724	1570	
28	6000	3730	3800	2890	2240	2700	3770	2380	1490	
Feb. 4	3540	5210	5350	4540	3420	2180	2850	5480	1770	
11	2890	4710	8790	5100	3570	2110	3150	3900	1470	
18	4060	2490	6720	6460	2770	1740	4010	1730	2790	
25	5010	2540	5720	2830	1820	4040	2540	3030	891	
Mar. 4	7950	2660	3490	5160	3400	3930	2250	3270	3040	
11	11800	4010	3000	5690	4390	3330	2340	2560	5290	
18	4550	5380	2940	6450	14600	2260	2450	3170	2940	
25	3620	4440	3070	3830	8200	3270	3330	1850	3110	
Apr. 1	3670	4830	3000	4860	2890	2450	2350	2080	1970	
8	3250	13700	3390	4060	3600	3170	2010	2100	1960	
15	4460	5360	2620	2780	4680	3530	2130	2970	1980	
22	3550	3440	6720	3400	3080	4530	2040	2200	2010	
29	2920	3470	4940	2810	2280	2510	1930	1600	2190	
May 6	5650	2530	4310	5900	2530	3260	2220	1380	1800	
13	5790	2550	3990	4380	2130	2730	3040	1320	1890	
20	4760	2090	4130	7490	3500	2430	3000	1370	1320	
27	5240	2270	3040	3830	2950	2700	1670	1030	1280	
June 3	3820	1760	2510	3940	3170	2580	1430	1070	1580	
10	2770	4030	2750	7430	1780	1820	1270	988	1420	
17	2670	1840	2160	2890	1780	2100	1160	820	2570	
24	2580	3260	1870	3580	1380	1750	1170	975	1850	
July 1	5240	2020	2430	2290	1700	2600	1360	982	1270	
8	2270	1710	1630	4010	1630	5640	1170	1240	1150	
15	2070	2490	2070	2730	1360	5540	1210	1110	3140	
22	20000	3430	3150	6070	1680	2540	833	840	2790	
29	7490	1830	1620	2950	1430	1930	872	2820	1100	
Aug. 5	2930	1300	1610	2220	2100	3270	762	2140	1020	
12	2110	3370	1410	2070	3310	1750	1210	1780	1190	
19	3770	4100	1600	3820	2090	1740	969	840	917	
26	2050	3600	1250	1810	1780	1870	576	1470	2760	
Sept. 2	2110	7430	1120	1830	1820	1650	629	1250	1290	
9	1640	2110	1100	2160	2310	1290	691	1740	879	
16	1510	2320	1380	1460	1730	1140	1130	969	1060	
23	1430	1920	1470	1200	1560	1800	859	685	1290	
30	1410	4010	1520	1140	1690	10300	625	633	704	
Oct. 7	1350	3260	1230	1350	1070	10800	652	762	2020	
14	1640	1600	1030	3480	995	1870	640	711	2560	
21	1980	1490	1010	1510	1050	1560	1500	711	1410	
28	2720	1480	970	1440	1270	1630	1520	930	846	
Nov. 4	1650	1540	5560	1320	1100	1890	1020	808	820	
11	1510	1510	1820	1290	2960	1540	1220	969	943	
18	2750	3970	1520	1330	1240	1500	2090	2830	1090	
25	1720	2340	1670	1290	1250	2290	1180	2230	1750	
Dec. 2	1670	7620	1840	1270	1620	1560	1050	1780	1160	
9	1760	5900	2040	1420	5050	4220	1070	1230		
16	4970	9370	1420	1620	1890	5780	969	2360		
23	2110	3600	1650	2400	1660	2000	1350	1600		
31	1780	4410	1500	1690	1910	2160	1270	6650		
Maximum	20000	13700	8790	7490	14600	10800	7300	6650		
Minimum	1350	1300	970	1140	995	1140	576	633		

# Yadkin River at High Rock, N. C.

Location.- Water-stage recorder, lat. 35°35'40", long. 80°13'55", a quarter of a mile downstream from High Rock Dam at High Rock, Davidson County, 2 miles upstream from Lick Creek. Datum of gage is 558.68 feet above mean sea level, datum of 1929, and 590.00 feet above Carolina Aluminum Co. datum.

Drainage area.- 3,980 square miles.

Records available.- January 1919 to November 1927, November 1941 to September 1945.

Average discharge.- 10 years (1919-25, 1926-27, 1942-45), 3,200 million gallons per day (adjusted).

Extremes.- 1919-27, 1941-45: Maximum discharge, 49,500 million gallons per day July 21, 1919 (gage height, 15.9 feet, present datum, from floodmarks as determined by Tallassee Power Co.), from rating curve extended above 34,200 million gallons per day by velocity-area studies; minimum, 6.5 million gallons per day (regulated) Aug. 10, 1942 (gage height, 1.84 feet); minimum daily, 7.8 million gallons per day (regulated) Aug. 9, 1942.

Remarks.- Large diurnal fluctuation caused by High Rock Power Plant above station. Flow largely regulated since Nov. 7, 1927 by High Rock Reservoir, which has a usable capacity for normal operation of 10,230,000,000 cubic feet.

Previously published records prior to Nov. 1941 for this station are occasionally subject to error, owing to faulty or no gage-height record and a rating curve which was extended above 16,800 million gallons per day and giving results considerably larger than present rating.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1919		5633	5885	3598	4490	3224	7752	2778	1725	2242	2242	2913	
1920	2907	4186	4942	7171	2468	3392	2280	4509	3081	2235	3346	6912	3952
1921	5872	7946	3514	4832	4167	2623	2474	1628	1434	1085	2926	2119	3385
1922	2662	5814	6454	4186	6370	4948	4309	2610	1731	2106	1441	2132	3730
1923	2965	3669	7946	4244	3475	1951	1686	2506	2235	950	1925	2978	3045
1924	4800	3488	3766	4341	3547	2487	4167	2481	2681	4444	2016	3986	3517
1925	7558	3941	3256	2364	2791	1376	1124	1040	924	1273	1712		
1926		4793	3114	2888	1370	1118	1925	1770	1143	749	1789	3075	
1927	1809	4612	3631	2048	1576	2158	2339	1628	968	1983	1014		
1941												1523	
1942	1702	2394	3810	2535	2993	3868	2493	2379	3768	2731	1290	2768	2729
1943	5258	4893	4058	4138	3669	2372	4773	2074	1544	1328	1501	1940	3110
1944	2702	3025	6757	5059	2739	2409	1933	2240	1701	5215	2520	3061	3285
1945	3209	4066	3362	2621	2933	2233	1291	2004	6789	2386	2561	4630	3162
Max.	7558	7946	7946	7171	6370	4948	7752	4509	6789	5215	3346	6912	3952
Min.	1702	2394	3114	2048	1370	1118	1124	1040	924	749	1014	1523	2729
Mean	3773	4497	4653	3848	3276	2628	2965	2281	2288	2210	2022	3170	3324

Yadkin River at High Rock, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1941												2440	
1942	2360	4500	17600	3510	16100	9170	4100	3650	9370	4210	2220	4610	17600
1943	24700	15600	9950	13000	4120	4010	12100	2860	2750	2240	2960	3050	24700
1944	3430	7170	23300	20900	3220	3010	3350	3010	3550	32800	3050	5440	32800
1945	5040	12200	4500	3320	4010	3350	1750	2920	42900	2870	2970	15400	42900
Max.	24700	15600	23300	20900	16100	9170	12100	3650	42900	32800	3050	15400	42900
Min.	2360	4500	4500	3320	3220	3010	1750	2860	2750	2240	2220	2440	17600
Mean	8882	9867	1384	1018	6862	4885	5325	3110	1464	1053	2800	6188	29500

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1941												17	
1942	1220	1270	1430	1670	35	2920	1020	7.8	2170	9	9	12	7.8
1943	2620	3010	2510	3010	3010	43	607	19	12	12	12	16	12
1944	636	559	2520	2810	2070	1090	17	28	26	2020	1560	2050	17
1945	1990	2340	2460	36	72	105	32	96	211	1530	1500	1530	32
Max.	2620	3010	2520	3010	3010	2920	1020	96	2170	2020	1560	2050	32
Min.	636	559	1430	36	35	43	17	7.8	12	9	9	12	7.8
Mean	1616	1795	2230	1881	1297	1039	419	377	605	893	770	725	17

## Yadkin River at High Rock, N. C.

Mean Weekly Discharge in Million Gallons per day

Week Ending	1941	1942	1943	1944	1945					
Jan. 7		1740	3750	2580	2890					
14		1740	4150	2820	3600					
21		1470	3760	2220	3070					
28		1900	4830	3130	3220					
Feb. 4		1670	9110	2950	3130					
11		1970	7950	2730	2680					
18		2540	4080	1670	2860					
25		3000	3600	4330	7240					
Mar. 4		2140	3770	3190	3750					
11		6310	3480	4430	3600					
18		3470	3610	5340	3110					
25		3390	5510	8720	3370					
Apr. 1		3110	3710	10700	3320					
8		3070	3610	3510	3020					
15		2430	3760	8200	2440					
22		2420	5720	4730	2090					
29		2150	3630	3830	2780					
May 6		2090	3620	2820	3620					
13		1750	3680	2970	2670					
20		1710	3800	2800	2650					
27		6090	3550	2640	2870					
June 3		3520	3650	2500	2820					
10		3390	2140	2580	2370					
17		5010	2380	2390	2530					
24		3530	2400	2290	2050					
July 1		3470	1980	2220	1390					
8		3340	4430	1620	1320					
15		2820	8140	1360	1340					
22		2190	4120	2500	1360					
29		1750	3380	2240	1300					
Aug. 5		1880	2560	2380	1630					
12		1410	2110	2590	1900					
19		2240	2030	2660	1740					
26		3290	2090	1960	2260					
Sept. 2		3180	1750	1370	2090					
9		4320	1630	1470	1800					
16		3580	1690	1510	1850					
23		3610	1270	1580	22700					
30		3750	1490	2290	2320					
Oct. 7		3750	1420	10300	2220					
14		3310	1410	2400	2200					
21		2530	1390	4330	2550					
28		1950	1360	4890	2460					
Nov. 4		963	1520	2910	2650					
11		1840	1470	2720	2510					
18		1200	1340	2340	2470					
25		911	1450	2380	2540					
Dec. 2		1760	1510	2260	2540					
9	1080	2840	2310	2740	2780					
16	1780	3430	1300	3680	2840					
23	1630	1910	2280	2940	2720					
31	1670	3050	1880	3130	10100					
Maximum		6310	9110	10700	22700					
Minimum		911	1270	1360	1300					

Location.- Water-stage recorder, lat. 34°56'10", long. 79°51'10", at bridge on U. S. Highway 74, 1 mile upstream from Falling Creek, 4 miles downstream from Blewett Falls hydroelectric plant and 6 miles west of Rockingham, Richmond County. Datum of gage is 120.68 feet above mean sea level, datum of 1929 (levels by Corps of Engineers, U. S. Army).

Drainage area.- 6,870 square miles.

Records available.- September 1927 to September 1945. August 1906 to January 1912 at site on Pee Dee River about four miles upstream, published as Yadkin River near Pee Dee, N. C.

Average discharge.- 23 years (1906-1912)-(1927-45), 5080 million gallons per day (unadjusted).

Extremes.- Maximum discharge, 174,000 million gallons per day Sept. 18, 1945 (gage height, 30.80 feet) from rating curve extended above 125,000 million gallons per day; minimum, 92 million gallons per day (regulated) Oct. 25, 1943; minimum daily, 98 million gallons per day (regulated) July 28, 1940.

Maximum stage known, 31.28 feet in August 1908, from State Highway and Public Works Commission records (discharge 178,000 million gallons per day, from rating curve extended above 125,000 million gallons per day).

Remarks.- Large diurnal fluctuation caused by power plants above station. Flow largely regulated by four reservoirs above station which have a combined usable storage capacity for normal operation of 17,638,000,000 cubic feet.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1906								#10530	6912	6079	4341	4167	
1907	4315	4903	5026	5426	3676	7364	3805	2687	2829	1996	4315	9044	4616
1908	10401	11047	8850	4813	4076	4005	5627	12920	4671	7041	5407	6848	7147
1909	5491	6389	5756	4464	8656	10530	4580	6848	2933	2371	2235	2823	5256
1910	4257	6111	5640	2965	3198	5801	3631	2868	4018	3236	1886	2694	3859
1911	4451	3760	4005	5504	2435	2067	1680	1906	3030	3727	3779	6525	3572
1912	*5019												
1927										4361	2358	8010	
1928	3837	5149	4309	8767	7364	4948	3740	12400	23060	4748	2733	2901	6996
1929	3837	10270	21320	6589	6395	5523	4477	3721	3547	15180	8269	7300	8036
1930	7041	7171	4935	3643	4005	2410	3262	2610	2041	911	1434	3714	3598
1931	4238	2584	2855	6460	7106	2280	2965	6848	1673	1802	1615	4761	3766
1932	8979	6357	7623	4121	3333	4554	3004	1938	1705	6848	7881	13110	5788
1933	7300	7041	6525	4877	3966	2087	1906	2720	2145	2074	1731	1699	3679
1934	1634	2313	3547	7235	3010	6021	2765	2868	5045	3327	3439	6294	3952
1935	7571	6576	10460	9031	4377	2580	3268	2554	4136	2420	3295	3403	4962
1936	17750	13910	12560	20250	3125	2859	2725	3647	3122	9399	3569	6466	8262
1937	20210	9716	5983	8476	4968	4045	3355	3796	3476	5576	3922	4367	6479
1938	4845	3780	4269	4925	2419	3759	6203	3722	2935	2214	2649	3641	3782
1939	4437	14960	10610	4438	3454	3227	4200	7229	3213	2548	1917	1705	5103
1940	3182	4925	3839	3904	2663	2383	2492	7313	3662	2483	3417	3258	3623
1941	3593	3009	4046	4994	2651	2816	6473	2205	2085	2057	1335	1988	3109
1942	2058	4742	9457	3747	5455	5059	3222	3136	4905	3180	3243	3833	4260
1943	9716	7901	8643	6693	4581	3419	8882	2576	1924	1455	1611	2605	4995
1944	5464	9018	14220	10620	3802	2850	4437	3628	2132	7345	3193	4951	5969
1945	5452	8495	5693	4145	3709	2747	3371	3451	20390	3207	3362	9251	6070

#August 9-31, 1906

\*January 1-18, 1912

Pee Dee River near Rockingham, N. C.

Mean Monthly Discharge in Million Gallons per day (cont.)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
Max.	20210	14960	21320	20250	8656	10530	8882	12920	23060	15180	8269	13110	8262
Min.	1634	2313	2855	2965	2419	2067	1680	1906	1673	911	1335	1699	3109
Mean	6462	6962	7399	6352	4279	4058	3916	4755	4816	4223	3281	5014	5082

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1906								*34000	31900	20700	14900	6980	
1907	13800	9950	11500	18000	5940	19800	8200	4680	13600	4060	19400	26900	26900
1908	31300	31900	28200	7880	6590	9750	15100	80100	13200	21400	16700	32400	80100
1909	11100	16200	10700	9950	30000	32900	9370	31300	5940	4060	2920	7170	32900
1910	13600	14900	23200	5610	10300	28500	9950	6280	14200	13600	2140	6100	28500
1911	20300	11100	6980	14500	3480	3760	4830	10700	9370	15800	13600	24200	24200
1912	# 7300												
1927										17200	5310	35000	
1928	5610	17100	9170	48200	25200	12300	6650	54100	118000	12300	4220	5480	118000
1929	5610	62100	93000	21600	16300	11100	6980	4950	5750	103000	24400	24000	103000
1930	22400	23500	8400	5280	15200	5960	5210	6180	2820	2740	3280	11100	23500
1931	8400	4170	4210	21200	31100	4170	4830	28800	3120	3190	3320	21300	31100
1932	49100	11900	46200	7360	8530	13600	4950	2890	2900	39700	23100	31900	49100
1933	17300	12000	31500	8530	8660	4630	2790	6270	4320	3620	3160	4000	31500
1934	3940	5220	17600	22900	10700	27500	5940	5760	24500	9690	13200	29600	29600
1935	19400	16200	39400	23800	12300	5990	4690	4840	12700	4480	6110	4800	39400
1936	70400	53600	46400	107000	5250	5940	6050	9750	5270	34100	4630	17400	107000
1937	50400	20600	11000	36800	12300	6320	4640	8530	7430	26200	5360	6720	50400
1938	11000	5550	7240	12900	4800	7170	28100	8600	4660	3360	5540	12100	28100
1939	8590	41300	42600	8400	4910	4730	14900	39700	4530	3970	3400	4170	42600
1940	6400	9690	7300	5080	4380	5800	4240	51600	8010	3290	12300	5810	51600
1941	4840	4200	7690	17300	4050	4300	13900	5500	3110	3040	2600	4660	17300
1942	3470	24900	37700	5650	27600	14300	5500	9370	15200	4800	5360	11400	37700
1943	37100	33200	28400	25800	5800	4530	25000	4800	3640	3010	2780	5220	37100
1944	22000	21000	53600	41500	4800	4000	16600	9170	4800	38700	6130	8590	53600
1945	7300	24400	11500	7880	4720	4670	9430	11500	156000	4210	4000	32800	156000
Max.	70400	62100	93000	107000	31100	32900	28100	80100	156000	103000	24400	35000	156000
Min.	3470	4170	4210	5080	3480	3760	2790	2890	2820	2740	2140	4000	17300
Mean	18800	20600	25400	21000	11400	10500	9470	18300	19800	16000	8310	15200	52100

\*August 9-31, 1906

#January 1-18, 1912

Pee Dee River near Rockingham, N. C.

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1906								*3230	3480	3190	3190	3190	
1907	2920	2920	2920	3060	2390	3190	2140	1650	1430	1540	1890	2390	1430
1908	3760	4680	4680	3760	2920	2650	2390	2260	2390	2390	3330	3190	2260
1909	3760	3190	3760	3480	2920	4370	2650	2390	2140	2020	2020	1770	1770
1910	1890	3190	2650	2260	2020	1650	1890	1650	1650	1890	1650	1650	1650
1911	2390	2260	2140	2920	1650	1430	1060	1010	1210	1370	1890	2020	1010
1912	#3060												
1927										917	672	1650	
1928	1780	1990	917	2200	2710	1070	672	637	3360	814	782	724	637
1929	1460	1950	5620	988	2030	2210	2240	1950	1780	762	1250	2790	762
1930	1560	1490	724	609	1060	782	943	490	320	162	169	853	162
1931	904	103	1140	1490	1580	346	426	286	136	78	123	191	78
1932	432	1590	484	1270	474	1210	1060	397	36	26	1770	975	26
1933	1140	1830	1080	1100	1620	34	289	328	54	174	497	29	29
1934	36	437	872	148	59	307	45	132	775	388	267	1020	36
1935	2530	562	2660	3140	1200	135	548	349	207	121	304	578	121
1936	3900	904	214	3820	982	357	652	492	736	1630	1260	1980	214
1937	5030	3990	1810	3440	1010	801	1350	299	866	1560	1090	487	299
1938	1020	982	917	1440	317	1320	353	362	585	107	488	144	107
1939	833	6090	1800	2240	904	130	724	1020	685	313	124	103	103
1940	212	1420	517	2070	904	160	98	109	672	162	762	420	98
1941	904	233	1290	572	284	866	749	153	183	163	110	127	110
1942	112	377	2640	163	182	2020	576	329	431	452	267	1120	112
1943	2430	2540	4000	3880	3290	475	3640	227	136	102	118	142	102
1944	322	236	4130	3400	1940	590	245	167	124	324	177	2430	124
1945	3280	891	2460	503	459	422	408	717	322	1140	1690	2170	322
Max.	5030	6090	5620	3880	3290	4370	3640	3230	3480	3190	3330	3190	2260
Min.	36	103	214	148	59	34	45	109	36	26	110	29	26
Mean	5758	1907	2149	2085	1431	1153	1093	860	988	872	1036	1246	503

\*August 9-31, 1906

#January 1-18, 1912

Pee Dee River near Rockingham, N. C.

Mean Weekly Discharge in Million Gallons per day

Week Ending	1906	1907	1908	1909	1910	1911	1912		
Jan. 7		7430	10600	5660	2360	9750	5850		
14		3910	22200	4960	2800	3680	4990		
21		3370	6850	7620	2640	2670			
28		3090	4490	4480	6380	2610			
Feb. 4		3130	7690	3580	7490	2390			
11		4950	5520	6460	3620	4640			
18		3530	21300	5840	7300	4890			
25		5560	9810	7620	8530	3040			
Mar. 4		7820	5890	6590	11000	2560			
11		4840	5740	5810	5810	3730			
18		6720	7750	5360	4670	5130			
25		3940	15100	4130	3230	3820			
Apr. 1		3110	8270	7950	2780	4110			
8		5170	5830	4190	2670	4950			
15		4600	4040	4580	2450	7300			
22		3570	5420	5200	4070	6780			
29		8720	4040	3850	2760	3600			
May 6		4660	4470	11200	2340	2960			
13		4570	4240	4180	5400	2520			
20		3070	3540	3310	2540	2830			
27		2910	4630	16500	2800	1980			
June 3		8270	3040	5650	2270	1630			
10		5400	4750	18000	2240	2430			
17		11400	4120	9880	13800	1970			
24		3730	3890	9430	5010	2190			
July 1		5760	3460	6780	3300	1890			
8		4100	10300	5360	2760	1490			
15		4190	5120	4160	4440	1640			
22		3960	2810	3430	5410	2420			
29		2700	5260	4380	2530	1270			
Aug. 5		2840	3260	15400	2440	1210			
12		3020	4500	6590	4000	2120			
19	10700	2760	2480	5060	2140	1430			
26	8590	2710	23700	3130	2980	1380			
Sept. 2	20900	1720	25800	2680	3910	4650			
9	8200	2400	8330	2230	7950	4310			
16	4920	2310	4130	2300	3340	1800			
23	4590	1650	2610	3820	1960	1820			
30	4430	5340	3600	3490	1790	3010			
Oct. 7	6260	2690	2740	2120	1910	1490			
14	4150	2000	7690	2400	6370	1660			
21	8850	1690	3020	2640	2720	6590			
28	5930	1630	10500	2430	2510	5650			
Nov. 4	3820	1890	11400	2140	1910	2250			
11	3440	2110	4130	2260	1960	5520			
18	3440	2050	8400	2470	1870	4040			
25	6910	8530	4110	2140	1870	3310			
Dec. 2	3720	5740	3480	2070	1840	3190			
9	3350	2670	4000	2090	3260	2400			
16	4350	12600	5020	4020	2400	2650			
23	5230	6720	8200	3070	2030	9630			
31	3960	14900	10700	2400	3240	11600			
Maximum		14900	25800	18000	13800	11600			
Minimum		1630	2480	2070	1790	1210			

Pee Dee River near Rockingham, N. C.

Mean Weekly Discharge in Million Gallons per day (cont.)

Week Ending	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
Jan. 7		4120	3170	5780	4590	7240	8140	1640	9430	17400
14		3730	4230	4800	4820	22900	9300	2560	8330	19800
21		3800	4220	11800	4520	4960	6120	1480	5540	26900
28		4240	3570	6030	2990	2850	6290	1030	7300	11900
Feb. 4		3460	3460	7820	3440	5970	5460	1900	5250	6270
11		5090	5890	11400	2150	6590	7170	2270	3240	15800
18		3690	8270	5680	2060	6590	8590	1780	10300	7200
25		8270	11200	4370	2900	6390	6650	1810	6650	7620
Mar. 4		2550	39700	4230	3120	4640	5480	3550	6000	4860
11		3510	29500	5820	2420	16900	4090	3140	4830	4860
18		5050	13800	4900	2630	5090	4880	2050	14900	13500
25		5630	16200	5030	3480	3420	13400	2000	6300	15200
Apr. 1		4330	10900	4820	3400	6240	4520	8980	20300	21400
8		3040	5600	3570	10700	4660	4220	5580	13100	50800
15		7950	4660	3700	6070	5460	5770	11600	9110	23200
22		6100	9820	3410	4070	3130	5660	7040	5750	5890
29		18400	4950	3680	5430	3270	4360	4260	7620	4590
May 6		6650	7750	3390	4680	4760	3730	2020	4950	4240
13		9820	7690	3570	7820	3170	5560	1450	3250	3540
20		3960	4350	5990	4040	2860	4740	4220	3840	2750
27		10500	7300	3350	13300	2830	2830	2640	6220	2830
June 3		5080	4760	2890	3690	2410	1900	6050	2840	2530
10		7110	6070	1800	2340	2580	1710	15600	3570	3370
17		5820	6190	2130	2410	6650	2340	3480	2290	2020
24		3480	4610	3640	1970	5580	2050	2310	2070	3090
July 1		3420	5850	2070	2110	4470	2290	1720	2640	2910
8		2700	4010	3190	3140	3270	1800	1870	3140	2630
15		4810	4860	2880	2240	2510	2050	4310	3810	2210
22		4880	5590	4080	2850	2730	1990	2020	3040	2480
29		3170	3550	3260	3480	3200	2150	2880	2910	2870
Aug. 5		2680	3510	2590	3960	2670	2270	3310	3170	4670
12		6850	3550	3950	5900	2120	2250	2250	2510	5390
19		35300	3300	1980	5630	2110	3900	2040	3000	3070
26		7040	4120	2420	13700	1580	2450	3260	1630	2600
Sept. 2		5810	3790	1810	2940	1490	2090	3880	2790	2900
9		35100	4520	2490	2210	1880	2410	3250	5130	3090
16		5760	3400	2110	736	1720	2350	5060	5930	3800
23		50000	3530	2090	1360	1460	1680	10400	2490	2710
30		5940	3000	1760	2000	1790	2000	2010	3570	2780
Oct. 7	5820	7360	50300	598	1810	1820	2050	3250	2880	4720
14	7040	4960	3640	956	1830	1540	2410	5900	2030	13400
21	3860	3000	3460	374	1770	21400	2070	2500	2150	17500
28	1910	4000	7240	1550	1750	4120	1870	2270	2510	4300
Nov. 4	2270	3310	5810	1270	1520	9630	1850	2200	2200	3620
11	1840	2820	9300	1360	1430	8010	1440	2890	3150	3230
18	2600	2730	6650	2070	1540	5950	1700	2920	4260	3910
25	2570	2580	9040	1560	2070	5870	1660	3460	3200	3760
Dec. 2	2260	2420	8330	1010	1860	7360	1890	10300	3200	3520
9	15800	2780	11000	3160	8330	4170	2270	10000	3150	5140
16	5560	3390	5180	2570	4730	15400	1810	3390	3480	8080
23	9110	4220	6650	3270	4410	9240	2030	4500	3990	9040
31	3700	1730	7040	6000	2550	24300	930	3230	3270	4660
Maximum		50000	50300	11800	13700	24300	13400	15600	20300	50800
Minimum		1730	3000	374	736	1460	930	1030	1630	2020

Pee Dee River near Rockingham, N. C.

Mean Weekly Discharge in Million Gallons per day (cont.)

Week Ending	1937	1938	1939	1940	1941	1942	1943	1944	1945
Jan. 7	30500	4630	3590	2620	4010	1470	5120	6220	4910
14	9560	6780	3810	2870	3420	1800	4520	3620	6100
21	22300	4770	5410	3990	3120	2430	13500	9110	5630
28	18100	3620	4540	3200	3380	2440	8270	4210	5520
Feb. 4	18300	4260	6040	2870	3280	1890	15900	3800	4330
11	9170	4190	15400	6070	2640	3770	15100	6850	3200
18	8200	3660	2010	5080	3560	6320	6130	11100	9110
25	9300	3660	7950	5300	3280	6140	4060	9240	15400
Mar. 4	7940	3400	32600	3950	2800	8400	4660	9690	8910
11	6320	4270	10700	3280	5080	16300	11400	8530	6360
18	5290	4750	7430	4700	3700	6440	5590	11800	4960
25	5680	4320	5110	3770	3390	7300	13400	24600	4300
Apr. 1	4900	3790	5200	3710	4970	6070	5820	16800	5240
8	6910	5520	4970	3490	9240	4750	4800	7110	3300
15	7110	7620	4080	4590	4190	4320	4880	16500	3390
22	4490	3860	4740	4230	3530	3310	12000	10000	4000
29	15600	3170	3620	3450	3280	2380	5810	8980	5690
May 6	6650	2760	3630	2620	2950	2250	4170	4510	4480
13	3870	2740	3950	2140	2830	2560	4480	4640	3460
20	7040	1940	3200	2700	2810	2900	4920	3300	3580
27	4130	2600	3090	2510	2260	14300	4450	3370	3630
June 3	3800	2350	3450	3960	2350	4390	4740	3200	3800
10	4720	5210	3480	2840	2830	4060	3510	2520	2860
17	4260	3590	3720	2210	2740	8910	3930	2910	2620
24	3580	3030	3060	2000	2400	3570	2930	2860	2670
July 1	3400	3310	2480	1740	3400	4010	3070	2670	2070
8	3250	2760	4660	2580	4330	3880	10400	2240	1490
15	3620	3100	3240	2690	8330	3190	16500	3990	2420
22	3820	3710	5320	2760	9110	3080	5950	8200	5470
29	2970	15800	4260	1980	5510	2680	4460	3680	4460
Aug. 5	2230	4770	3530	2250	3320	1940	3180	4680	4320
12	2860	6520	2870	2310	3310	1810	2550	5500	2990
19	4040	2930	9820	21900	969	3040	2970	3180	2340
26	3900	1750	12900	4090	1800	5520	2440	2450	4300
Sept. 2	6450	3190	4590	4300	2140	3550	2600	1980	2710
9	3780	2880	2970	4740	1960	6780	2180	1140	3320
16	3390	2490	3000	3390	1910	4550	1470	1830	8080
23	2930	3550	3170	3320	2310	3950	2050	2880	71600
30	2850	2530	3480	2540	2030	4520	1510	2790	3990
Oct. 7	3370	2140	2800	2650	1780	4260	1850	14800	3300
14	3090	2520	2980	2250	2210	3480	1620	3410	3190
21	3510	2220	2270	2620	2110	2860	1180	4750	3050
28	10700	2190	2410	2220	1960	2370	1620	8270	3280
Nov. 4	6520	2440	1980	2780	1910	2290	1330	3620	3270
11	3690	1490	1990	2550	1330	2380	1660	3310	3520
18	4480	2230	1980	6160	1490	2000	1510	2820	3090
25	3420	4120	1750	2170	1110	2500	1520	2440	3180
Dec. 2	4080	2860	1890	2740	1490	2970	1970	4830	3690
9	4270	2830	1430	2460	2040	3150	2340	4770	6290
16	3870	3030	1700	2910	1390	3710	2220	5560	4710
23	3870	3000	1400	3530	1800	3490	1830	4750	5700
31	5220	5450	2180	4410	2640	4920	3720	4210	20400
Maximum	30500	15800	32600	21900	9240	16300	16500	24600	71600
Minimum	2230	1490	1400	1740	969	1470	1180	1140	1490

# High Rock Reservoir at High Rock, N. C.

Location.- Reservoir formed by High Rock Dam, lat. 35°35'50", long. 80°14'00", on Yadkin River, half a mile west of High Rock, Davidson County, and 2 miles upstream from Lick Creek.

Drainage area.- 3,980 square miles.

Remarks.- This is one of four principal reservoirs which extensively regulate the Yadkin - Pee Dee River. Impounding started Nov. 7, 1927; reservoir completed Nov. 23, 1927. Surface area at maximum design level, 15,180 acres. Total storage capacity, 11,090,000,000 cubic feet; usable capacity, 10,230,000,000 cubic feet. Reservoir used for power. Record of change in contents computed from data furnished by Aluminum Company of America.

## Monthly Change in Contents in Equivalent Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1928	-836	+632	+383	+629	+8	-24	-298	+290	+24	0	-286	-411
1929	-391	+1108	+86	-8	-16	+24	-133	-523	-738	+1355	+16	0
1930	-39	-69	+31	-494	-572	+1012	-1757	+48	-265	-303	+124	+407
1931	+325	-457	+604	+1403	+17	-575	+90	+442	-697	-881	-468	+392
1932	+1640	-198	+84	+89	-42	-172	-1157	+18	-749	+2080	+5	-47
1933	+45	-168	+122	-31	-198	-343	-430	+187	+542	-1749	-302	-16
1934	-92	+1018	+1514	-13	+36	-188	+173	+11	-13	-248	-42	+298
1935	-3	+9	-83	+31	+27	-814	+574	-694	-76	-77	-111	-539
1936	+2184	+174	+63	+13	-482	+27	-177	+377	-959	+869	-1261	+1129
1937	+316	+95	-125	+136	-192	-676	-885	+1246	-756	+1219	-310	-860
1938	-61	-494	+220	-260	+164	+1080	+492	-457	-1068	-592	+488	+405
1939	+125	+1190	+8	-86	-668	-442	+1124	-42	-1031	-1048	-233	+194
1940	-198	+646	+97	+648	+258	+112	-10	+637	-606	-1246	+745	-68
1941	-13	-317	+441	+151	-1049	+3	+1837	-350	-871	-794	-88	+150
1942	-63	+1083	+899	-843	+887	-345	+560	+546	-347	-798	+349	+1078
1943	+232	-554	+454	-58	-654	+349	+252	-152	-232	-310	-257	-527
1944	+305	+1402	+5	-66	-273	-773	+863	-964	+1182	-81	-242	-110
1945	-1	+514	-250	+68	-280	-934	+990	-741	+1170	-517	-293	+769

Narrows Reservoir near Badin, N. C.

Location.- Reservoir formed by Narrows Dam, lat. 35°25'00", long. 80°05'30", on Yadkin River  $1\frac{1}{2}$  miles northeast of Badin, Stanly County,  $2\frac{1}{2}$  miles upstream from Falls Dam and 4 miles upstream from Uwharrie River.

Drainage area.- 4,160 square miles.

Remarks.- This is one of four principal reservoirs which extensively regulate the Yadkin - Pee Dee River. Reservoir completed July 12, 1917. Surface area at maximum designed level, 5,973 acres. Total storage capacity, 10,498,000,000 cubic feet; usable capacity, 6,748,000,000 cubic feet. Reservoir used for power. Records of change in contents computed from data furnished by Aluminum Company of America.

Monthly Change in Contents in Equivalent Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1918	+825	-276	+80	+173	-14	-302	-26	+413	-69	+123	-23	+3
1919	-12	-37	-56	+95	+11	0	0	-68	-313	+88	-42	+286
1920	+48	0	0	-3	-11	-12	-95	+126	-3	-404	+420	-6
1921	+3	-3	+3	-3	+3	-23	-92	-329	-86	-242	+807	-202
1922	+247	+10	-12	+12	0	0	-34	-67	-462	-111	-681	+280
1923	+595	+196	+233	-46	+62	-733	-298	+685	-90	-922	-126	+841
1924	+444	+107	-22	+66	+17	-175	+119	-103	+191	-385	-732	+918
1925	+100	-184	-262	-684	+289	-384	-45	-78	+228	+178	+350	-417
1926	+866	+201	-517	-172	-516	+60	-1127	-285	-640	-291	+710	+520
1927	-960	+1063	-182	-553	-183	+690	+130	+79	-473	+189	-369	+702
1928	+109	+146	+14	+164	+3	-20	-48	+59	+3	+17	-9	-62
1929	+3	+16	+42	-8	-6	+9	-28	-12	+21	-5	+41	+3
1930	0	-64	+6	-11	-12	-3	-335	-528	-488	-124	+497	+574
1931	+346	+6	+10	+114	+9	-132	+17	+110	-117	+6	-424	+378
1932	+136	-96	+33	+12	-111	+96	-34	+40	-57	+81	+17	-15
1933	+10	+1	-75	+2	+383	-17	-92	+36	+44	-541	-373	-353
1934	+49	+3	+1265	+11	0	-12	+26	-10	+5	-141	-36	+172
1935	-1	+8	-34	+12	-20	-72	-19	-1	-24	-118	-31	-598
1936	+866	+3	-2	+36	-118	-56	+85	-68	+37	+20	-52	-26
1937	+126	+11	0	+21	-75	+14	-4	-39	+7	+93	-133	+20
1938	-15	-6	+19	-15	-45	+39	+155	-96	-24	-543	+459	+38
1939	-16	+147	+15	-66	-23	+4	-8	+10	-486	-241	-287	+51
1940	-9	+358	+198	-17	+40	+79	-29	+353	-385	-21	+22	-35
1941	+119	-95	+182	+126	-76	-906	+1006	-55	+30	-448	-334	+253
1942	+6	+593	-11	-4	+56	-71	-9	+16	+269	-303	-541	+625
1943	+52	-50	+38	-43	-11	-53	+14	-23	+39	-26	+7	-41
1944	+42	+102	+6	-11	-51	-73	-40	+61	+53	-1	-6	-6
1945	-4	+85	-92	-64	+52	0	-22	+68	+38	-72	-4	+90

# Tillery Reservoir near Mt. Gilead, N. C.

Location.- Reservoir is formed by dam, lat. 35°12'10", long. 80°03'10", on Pee Dee River, 3½ miles west of Mt. Gilead, Montgomery County and 3¼ miles upstream from Rocky River.

Drainage area.- 4,600 square miles.

Remarks.- This is one of four principal reservoirs which extensively regulate the Yadkin - Pee Dee River. Reservoir completed about January 1928. Surface area at maximum design level, 5,000 acres. Usable storage capacity, 5,960,000,000 cubic feet. Reservoir used for power. Records of change in contents computed from data furnished by Carolina Power and Light Company.

Monthly Change in Contents in Equivalent Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1930	-42	-46	-145	+161	-238	+337	-244	+54	-41	+188	-21	-103
1931	-69	-16	+124	-31	-25	+84	-71	+5	+111	-143	+62	+41
1932	+88	-11	-5	-6	-68	-37	-40	+134	-80	-20	+80	-5
1933	+42	-12	+16	-112	-90	+20	+65	-55	+127	-16	-105	0
1934	-141	-366	+625	-319	+236	-53	+25	+57	+70	+26	-177	-118
1935	-77	-10	+360	-202	-183	+353	-36	-128	+196	-68	-111	-112
1936	+24	+99	+139	-107	+135	-59	0	+31	-11	+16	-32	-77
1937	+114	-29	-26	-222	+184	+59	+5	-5	+10	-31	-16	-87
1938	+103	-6	-67	+96	-26	+37	-93	+57	-126	+169	-200	+157
1939	+47	+29	-191	+52	-25	+96	+47	-62	-5	+31	-21	0
1940	+10	-317	+265	-141	+121	+43	-57	+78	-6	-10	-27	-87
1941	+92	+86	-99	+54	+42	-6	-57	+36	-10	-68	+113	-120
1942	+26	-45	+135	-118	+73	-21	-88	+139	-16	-15	-16	-167
1943	+198	-29	-36	-27	+125	-92	-5	0	-32	+68	-27	-72
1944	+93	-39	+94	-55	-26	+38	0	-174	+89	+46	+54	-68
1945	-161	+155	-82	+143	-16	+49	-31	-83	+91	-5	-80	+130

# Blewett Reservoir near Rockingham, N. C.

Location.- Reservoir formed by dam, lat. 34°59'20", long. 79°52'35", on Pee Dee River, 5½ miles downstream from Mountain Creek and 7 miles northwest of Rockingham, Richmond County.

Drainage area.- 6,830 square miles.

Remarks.- This is one of four principal reservoirs which extensively regulate the Yadkin - Pee Dee River. Reservoir completed in 1911. Surface area at maximum design level, 2,500 acres. Usable storage capacity, 1,850,000,000 cubic feet. Reservoir used for power. Records of change in contents computed from data furnished by Carolina Power and Light Company.

Monthly Change in Contents in Equivalent Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1930	-46	-85	+84	+15	-99	+147	-5	-106	-2	+94	-70	+171
1931	-169	-32	+84	-40	+12	+35	+14	-29	+47	-19	-32	+29
1932	+5	+77	-103	-57	+22	+20	-26	+60	+15	-48	-25	+150
1933	-125	+5	-58	+30	+12	+37	+12	+5	-2	+12	-2	-46
1934	+17	-88	+151	-96	+53	-92	-29	+22	+42	-5	+137	-82
1935	+7	-37	+73	-70	-63	+65	-22	+12	-22	+26	-17	+12
1936	+10	-57	+104	-70	0	0	+72	-80	-15	-24	+17	+77
1937	+67	-120	-26	+105	-63	+12	-5	+84	-84	-58	+42	+2
1938	-22	+5	+56	+12	+7	-20	-53	+70	-2	-10	+31	-18
1939	+40	+59	-99	-57	+78	-48	+34	+3	+2	+10	-10	-5
1940	-68	+18	-77	+67	+66	+16	+8	+5	-37	+23	-26	+56
1941	-123	+19	+71	+16	-20	+3	-42	+52	-56	+31	+8	-49
1942	+7	+49	+23	-3	-103	+10	+86	-10	0	-13	-37	+109
1943	-62	-107	-34	+151	-26	0	-75	+100	-36	+7	+26	+5
1944	-25	+72	-14	-169	+7	+80	+77	-63	+112	-217	+194	-104
1945	-36	+122	-45	-32	+34	-27	+17	+5	-30	0	-75	+174

Reddies River at North Wilkesboro, N. C.

Location.- Water-stage recorder, lat. 36°10'25", long. 81°10'10", 1¼ miles northwest of North Wilkesboro, Wilkes County, 1¼ miles upstream from North Wilkesboro municipal dam, and 1½ miles upstream from mouth. Datum of gage is 978.62 feet above mean sea level, datum of 1929, supplementary adjustment of 1936.

Drainage area.- 93.9 square miles.

Records available.- December 1939 to date.

Extremes.- 1939-45: Maximum discharge, 17,400 million gallons per day Aug. 14, 1940 (gage height, 22.02 feet), by computation of flow over dam; minimum, 28 million gallons per day Jan. 6, 1940, but may have been less at times during periods of ice effect in January and February 1940.

Remarks.- Records good except those above 1,600 million gallons per day, and those for periods of no gage-height record, which are poor.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1939												*43.0	
1940	39.3	66.5	49.9	69.8	47.4	56.8	60.1	379	91.1	53.4	60.5	99.5	89.8
1941	73.6	57.9	69.8	69.8	44.3	47.7	216	67.2	45.5	39.7	45.4	71.1	71.1
1942	61.6	78.8	106	62.4	151	180	81.4	7619	211	66.5	60.4	107	103
1943	110	123	114	133	129	83.3	160	81.4	50.7	41.5	55.1	50.0	94.3
1944	71.1	100	149	106	91.7	65.9	69.1	57.8	121	118	68.5	71.1	90.4
1945	97.5	98.2	95.0	100	82.0	59.0	75.6	58.7	309	85.9	73.6	103	103
Max.	110	123	149	133	151	180	216	379	309	118	73.6	107	103
Min.	39.3	57.9	49.9	62.4	44.3	47.7	60.1	57.8	45.5	39.7	45.4	50.0	71.1
Mean	75.5	87.4	97.3	90.2	90.9	82.1	110	120	138	67.5	60.6	77.8	91.9

\*December 13-31, 1939

Reddies River at North Wilkesboro, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1939												*74	
1940	79	367	67	181	110	90	155	4910	251	71	162	448	4910
1941	108	90	122	158	76	217	629	120	68	87	106	237	629
1942	134	236	513	92	1040	924	133	137	1940	96	97	580	1940
1943	393	313	226	762	373	178	570	323	81	48	291	159	762
1944	239	375	512	162	205	167	246	155	1250	665	102	112	1250
1945	355	233	137	294	159	79	214	176	3200	180	132	225	3200
Max.	393	375	513	762	1040	924	629	4910	3200	665	291	580	4910
Min.	79	90	67	92	76	79	133	120	68	48	97	74	629
Mean	218	269	263	275	327	276	324	970	1132	191	148	262	2115

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1939												*34	
1940	30	31	43	45	36	36	32	41	58	48	49	47	30
1941	61	52	48	53	34	32	57	52	37	34	37	38	32
1942	39	51	58	52	46	81	60	57	65	55	53	56	39
1943	68	80	74	83	90	63	76	55	42	39	41	35	35
1944	47	43	74	81	67	47	37	34	46	63	57	61	34
1945	61	52	79	70	63	45	38	42	41	68	61	58	38
Max.	68	80	79	83	90	81	76	57	65	68	61	61	39
Min.	30	31	43	45	34	32	32	34	37	34	37	34	30
Mean	51	52	63	64	56	51	50	47	48	51	50	47	35

\*December 13-31, 1939

Reddies River at North Wilkesboro, N. C.

Mean Weekly Discharge in Million Gallons per day

Week Ending	1939	1940	1941	1942	1943	1944	1945			
Jan. 7		36	93	86	104	103	161			
14		43	70	53	76	57	96			
21		45	67	56	93	81	78			
28		35	67	52	143	52	69			
Feb. 4		34	61	58	134	47	61			
11		43	55	90	182	58	62			
18		68	65	94	117	149	101			
25		118	55	72	92	121	149			
Mar. 4		50	53	63	81	93	109			
11		47	87	189	86	112	110			
18		52	76	92	107	114	86			
25		46	61	72	151	177	85			
Apr. 1		54	63	91	132	233	92			
8		59	92	67	92	116	84			
15		67	66	70	96	114	72			
22		80	57	58	237	96	145			
29		77	67	54	117	93	105			
May 6		54	51	51	96	96	85			
13		45	54	48	153	89	73			
20		37	43	158	121	101	99			
27		43	37	365	149	87	81			
June 3		62	36	105	102	78	67			
10		59	35	134	84	83	65			
17		63	74	351	78	72	63			
24		62	34	109	77	55	57			
July 1		40	56	145	90	76	48			
8		62	206	96	96	77	47			
15		65	216	77	263	79	52			
22		59	306	68	160	52	97			
29		38	194	81	151	47	92			
Aug. 5		79	85	65	85	70	88			
12		65	68	74	77	68	57			
19		265	56	92	127	41	48			
26		125	74	81	59	36	73			
Sept. 2		320	55	67	58	100	48			
9		114	54	583	57	57	65			
16		82	43	97	47	57	286			
23		68	40	65	55	99	846			
30		65	43	141	43	258	111			
Oct. 7		52	40	65	41	112	98			
14		56	37	67	40	94	80			
21		54	37	65	43	189	75			
28		49	45	70	43	97	96			
Nov. 4		79	46	68	41	65	70			
11		52	53	59	92	59	63			
18		64	39	55	48	62	69			
25		51	45	61	43	70	86			
Dec. 2		51	40	65	41	86	79			
9		48	74	81	43	76	129			
16		57	61	73	40	72	85			
23	41	61	54	61	39	65	67			
31	49	227	101	208	76	71	134			
Max.		320	306	583	263	258	846			
Min.		34	34	48	39	36	47			

Fisher River near Dobson, N. C.

Location.- Chain gage at Turkey Ford Bridge, on Dobson-Ararat Highway 2 miles east of Dobson, Surrey County.

Drainage area.- 109 square miles.

Records available.- September 1920 to December 1932 (discontinued).

Extremes.- 1920-32: Maximum discharge, 5,400 million gallons per day Oct. 2, 1929 (gage height, estimated, 12.1 feet); minimum, 10 million gallons per day Aug. 30, 1925 (gage height, 0.03 foot).

Remarks.- Records good.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1924	217	116	117	132	122	90.4	141	93.7	126	95.0	82.7	156	124
1925	154	116	95.6	85.9	80.1	52.3	31.8	21.1	49.4	43.9	62.7	45.8	69.8
1926	120	127	82.0	77.5	50.1	49.6	113	50.7	37.0	35.8	105	87.2	78.2
1927	76.2	121	93.0	96.9	68.5	54.2	64.3	89.1	50.6	69.8	55.4	181	85.3
1928	98.2	82.0	92.4	132	109	89.8	67.8	313	310	133	99.5	89.8	135
1929	95.0	164	244	132	163	160	105	89.8	80.1	268	144	120	147
1930	109	112	134	93.7	73.6	47.2	22.9	34.9	26.4	25.1	37.6	74.3	65.9
1931	75.6	40.3	85.9	134	107	63.0	92.4	118	42.2	31.7	27.2	53.8	73.0
1932	116	73.6	101	98.8	89.8	87.9	41.5	38.2	34.2	152	200	154	98.8
Max.	217	164	244	134	163	160	141	313	310	268	200	156	147
Min.	75.6	40.3	82.0	77.5	50.1	47.2	22.9	21.1	26.4	31.7	27.2	45.8	65.9
Mean	118	106	116	109	95.9	77.2	75.5	94.3	84.0	94.9	90.5	107	97.4

Fisher River near Dobson, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1924	1910	297	176	331	420	193	704	455	685	207	251	1170	1910
1925	401	131	141	177	205	118	48	38	543	104	185	54	543
1926	1200	491	205	152	64	96	1070	76	58	94	866	188	1200
1927	104	646	110	191	84	84	147	607	147	467	177	801	801
1928	171	151	206	453	161	376	206	3590	2160	556	126	112	3590
1929	193	943	762	265	264	491	139	294	294	3270	521	178	3270
1930	165	251	711	236	165	106	32	144	50	43	75	659	711
1931	207	55	165	1050	455	455	762	562	165	80	32	284	1050
1932	401	165	433	221	353	221	89	71	221	2000	1310	724	2000
Max.	1910	943	762	1050	455	491	1070	3590	2160	3270	1310	1170	3590
Min.	104	55	110	152	64	84	32	38	50	43	32	54	543
Mean	528	348	323	342	241	238	355	649	480	758	394	463	1680

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1924	98	81	95	95	87	61	69	57	49	71	69	71	49
1925	100	98	84	70	52	35	14	11	19	23	45	40	11
1926	52	58	58	53	35	35	14	31	21	21	34	61	14
1927	58	54	71	71	53	35	35	28	26	21	43	45	21
1928	66	66	65	72	68	58	50	43	116	100	87	80	43
1929	80	76	136	101	103	83	76	57	55	81	103	100	55
1930	93	78	78	75	48	35	14	16	17	15	25	24	14
1931	36	32	35	49	61	30	30	39	24	24	22	23	22
1932	49	52	48	61	52	42	19	17	12	28	71	75	12
Max.	100	98	136	101	103	83	76	57	116	100	103	100	55
Min.	36	32	35	49	35	30	14	11	12	15	22	23	11
Mean	70	66	74	72	62	46	36	33	38	43	55	58	27

Fisher River near Dobson, N. C.

Mean Weekly Discharge in Million Gallons per day

Week Ending	1924	1925	1926	1927	1928	1929	1930	1931	1932
Jan. 7	127	170	60.1	92.4	141	110	124	150	145
14	197	147	64.0	84.6	95.0	98.2	105	65.9	174
21	463	166	279	65.9	74.9	88.5	110	60.1	71.1
28	129	144	74.3	61.4	86.6	88.5	98.8	42.6	57.5
Feb. 4	107	125	244	69.1	77.5	79.5	141	36.8	138
11	105	116	104	57.5	81.4	184	128	38.8	82.0
18	85.9	120	73.0	65.9	80.8	107	98.2	41.3	63.3
25	141	113	98.2	280	92.4	106	90.4	44.6	57.5
Mar. 4	136	100	82.0	103	75.6	339	80.1	45.9	53.0
11	131	98.2	87.9	104	78.8	249	255	47.8	140
18	105	100	91.1	87.9	101	365	112	41.3	65.2
25	120	95.0	68.5	96.9	99.5	202	104	75.6	104
Apr. 1	106	87.9	85.3	76.9	102	160	88.5	335	129
8	144	80.8	72.4	85.9	81.4	127	119	158	91.7
15	118	88.5	101	105	152	121	87.9	71.7	145
22	160	76.2	78.8	113	105	137	85.9	85.9	84
29	107	94.3	58.1	87.9	194	142	84.6	99.5	71.1
May 6	106	90.4	53.0	79.5	114	255	79.5	69.8	127
13	176	99.5	56.2	73.6	121	136	87.9	166	98.2
20	115	86.6	54.9	61.4	117	123	82.7	69.1	82.0
27	109	62.0	37.5	59.4	98.8	127	53.6	140	64.6
June 3	91.1	53.0	58.1	69.1	84.6	146	50.4	71.1	56.2
10	80.8	49.1	45.9	54.3	79.5	174	53.0	58.8	44.6
17	93.0	51.0	41.3	65.9	85.9	124	45.2	108	129
24	79.5	42.0	56.8	53.0	68.5	98.2	53.0	40.7	123
July 1	116	67.2	47.2	38.1	127	261	38.1	35.5	71.7
8	233	45.2	71.7	63.3	60.7	114	26.5	107	51.7
15	162	34.2	29.7	64.0	67.8	112	19.4	46.5	40.7
22	105	25.2	24.5	87.2	86.6	98.8	27.8	77.5	32.9
29	84.6	23.3	336	51.0	60.7	95.0	17.4	162	37.5
Aug. 5	137	23.3	82.0	46.5	61.4	95.6	38.1	143	48.4
12	85.9	30.4	57.5	37.5	173	101	29.7	67.8	45.2
19	65.2	21.3	39.4	65.9	911	69.8	37.5	53.0	36.2
26	85.3	13.6	44.6	179	162	65.9	35.5	202.0	29.7
Sept. 2	79.5	20.7	43.9	114	153	109	24.5	84.6	22.0
9	60.0	23.9	50.4	66.5	567	71.1	21.3	51.0	31.0
16	54.9	116	32.9	35.5	188	73.6	29.7	32.9	17.4
23	85.3	32.9	33.6	51.0	379	110	34.2	30.4	25.2
30	320	28.4	29.1	29.1	134	72.4	22.0	53.0	67.8
Oct. 7	127	31.7	37.5	44.6	129	704	17.4	27.8	167
14	83.3	36.8	30.4	143	107	108	20.0	31.0	43.3
21	76.9	59.4	27.1	58.1	107	88.5	30.4	27.8	387
28	96.9	49.7	45.9	45.2	197	23.1	29.1	35.5	54.3
Nov. 4	77.5	45.9	39.4	46.5	110	134	31.7	36.2	271
11	73.6	60.1	53.0	45.2	103	111	34.2	27.8	196
18	73.6	96.3	219	74.3	95.6	198	54.3	25.2	163
25	110	49.7	94.3	55.6	101	149	34.2	27.1	167
Dec. 2	75.6	47.2	80.8	91.1	93.0	127	29.7	25.8	105
9	317	46.5	76.2	387	87.9	121	147	38.8	77.5
16	133	42.6	82.7	126	91.7	103	48.4	56.2	114
23	92.4	43.3	65.2	110	92.4	120	51.0	82.0	108
31	110	50.4	123	107	84.6	127	67.2	47.2	314
Maximum	463	170	336	387	911	704	255	335	387
Minimum	54.9	13.6	24.5	29.1	60.7	65.9	16.2	25.2	17.4

Fisher River near Copeland, N. C.

Location.- Water-stage recorder, lat. 36°19'55", long. 80°40'30", 300 feet upstream from bridge on State Highway 268, half a mile upstream from Cody Creek, and 2 miles west of Copeland, Surrey County.

Drainage area.- 121 square miles.

Records available.- October 1931 to date.

Average discharge.- 14 years, 116 million gallons per day.

Extremes.- 1931-45: Maximum discharge, 17,600 million gallons per day Aug. 14, 1940 (gage height, 18.4 feet, from floodmarks), mean of two slope-area determinations; minimum observed, 14 million gallons per day Sept. 18, 1932 (gage height, 1.70 feet).

Remarks.- Records excellent except those for periods of ice effect or fragmentary gage-height record, which are poor.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1931										32.9	34.7	63.7	
1932	145	93.0	128	109	93.0	103	43.5	42.2	47.4	186	198	148	111
1933	124	138	143	142	121	60.9	62.0	73.6	43.2	35.9	39.3	46.9	85.9
1934	48.4	44.4	158	154	59.3	69.8	163	151	134	211	222	138	130
1935	182	118	169	133	107	97.5	180	96.3	240	77.5	91.7	77.5	130
1936	340	194	199	246	97.5	97.5	71.1	93.0	104	163	69.1	142	151
1937	323	163	124	142	135	78.8	61.2	202	89.8	375	143	117	163
1938	126	108	99.5	92.4	123	99.5	130	95.0	59.2	46.8	114	81.4	98.2
1939	114	266	151	118	87.2	95.6	121	217	50.6	43.2	48.1	55.8	113
1940	60.5	87.2	73.0	116	97.5	96.3	87.2	329	99.5	58.1	79.5	98.2	107
1941	84.6	66.5	78.8	82.7	50.1	43.9	115	43.4	43.0	26.0	42.0	99.5	64.6
1942	75.6	95.0	118	69.1	121	125	73.0	96.3	144	89.1	76.2	138	102
1943	169	156	167	177	182	182	256	127	73.0	59.1	65.9	69.1	140
1944	102	137	200	137	112	88.5	118	62.5	152	153	84.6	96.9	120
1945	133	130	124	113	138	76.9	127	73.0	194	85.9	90.4	141	119
Max.	340	266	200	246	182	182	256	329	240	375	222	148	163
Min.	48.4	44.4	73.0	69.1	50.1	43.9	43.5	42.2	43.0	26.0	34.7	46.9	64.6
Mean	145	128	138	131	109	93.9	115	122	105	110	93.2	101	117

Fisher River near Copeland, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1931										114	45	279	
1932	640	408	620	355	401	408	106	123	323	2070	1340	339	2070
1933	233	261	307	408	504	106	465	339	138	129	68	195	504
1934	96	85	1230	853	123	322	623	801	1550	3260	2800	911	3260
1935	969	207	808	195	195	261	950	339	2450	652	406	160	2450
1936	2340	1230	885	1690	138	373	352	378	1650	1340	107	638	2340
1937	1110	255	148	482	479	128	86	1560	174	4060	275	136	4060
1938	392	123	147	136	769	174	501	378	98	61	311	250	769
1939	629	1150	266	209	109	233	586	2600	78	70	80	116	2600
1940	146	393	110	659	619	183	576	4490	262	76	242	514	4490
1941	121	108	140	202	123	123	416	98	193	65	128	384	416
1942	154	297	501	116	724	451	262	368	730	267	132	724	730
1943	1250	400	576	885	642	665	814	665	112	68	151	253	1250
1944	481	550	618	230	383	221	659	129	1350	1460	159	154	1460
1945	395	305	248	203	435	148	743	152	1360	273	263	380	1360
Max.	2340	1230	1230	1690	769	665	950	4490	2450	4060	2800	911	4490
Min.	96	85	110	116	109	106	86	98	78	61	45	116	416
Mean	640	412	472	473	403	271	510	887	748	931	434	362	1980

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1931										25	32	36	
1932	63	61	59	54	56	44	25	20	15	32	94	80	15
1933	96	95	96	101	74	44	32	32	24	23	32	32	23
1934	32	36	47	63	41	35	34	36	32	51	47	76	32
1935	85	95	95	98	80	57	57	57	52	45	62	61	45
1936	65	97	98	127	72	56	40	42	34	59	59	61	34
1937	159	130	105	103	89	60	42	47	60	65	111	101	42
1938	96	96	86	72	61	68	53	50	48	42	48	61	42
1939	73	123	109	98	74	61	59	60	37	37	43	43	37
1940	45	45	59	59	50	50	37	56	63	51	59	56	37
1941	70	57	54	58	32	26	51	24	21	19	32	34	19
1942	52	59	68	54	44	65	39	37	46	65	63	70	37
1943	90	104	94	112	110	97	110	79	59	54	54	42	42
1944	61	56	98	101	72	50	44	40	36	63	67	81	36
1945	86	71	100	86	81	53	40	45	41	67	67	85	40
Max.	159	130	109	127	110	97	110	79	63	67	111	101	45
Min.	32	36	47	54	32	26	25	20	15	19	32	32	15
Mean	76.6	80.4	83.4	84.7	66.9	54.7	47.4	44.6	40.6	46.5	58.0	61.3	34.4

Fisher River near Copeland, N. C.

Mean Weekly Discharge in Million Gallons per day

Week Ending	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
Jan. 7		214	138	55	100	607	431	114	107	56
14		194	145	61	208	182	179	109	94	63
21		83	102	45	115	533	475	99	91	76
28		68	120	39	328	141	214	176	81	51
Feb. 4		193	100	41	110	134	245	125	245	52
11		92	149	42	110	130	171	108	375	65
18		77	152	38	153	371	143	104	297	76
25		70	147	45	106	140	160	109	143	150
Mar. 4		66	104	90	97	120	144	99	255	73
11		189	139	93	112	106	131	109	171	68
18		74	110	55	284	258	126	109	151	81
25		149	224	103	129	253	118	94	120	65
Apr. 1		138	117	397	174	222	107	87	120	76
8		94	127	81	158	481	140	98	139	71
15		176	121	269	132	243	121	102	109	81
22		87	211	186	125	151	109	92	111	191
29		76	120	89	105	138	205	81	112	131
May 6		136	199	59	110	123	138	72	97	81
13		96	132	52	118	109	122	64	91	68
20		85	96	56	96	94	185	80	81	54
27		70	81	76	125	82	122	91	83	90
June 3		60	77	50	81	71	90	313	127	212
10		47	62	102	110	121	83	108	99	92
17		183	61	55	148	144	79	92	78	119
24		125	48	87	77	69	83	77	98	89
July 1		77	68	37	58	63	65	94	68	59
8		57	45	36	92	127	69	81	96	82
15		39	43	227	207	54	59	63	179	78
22		36	54	196	130	67	57	133	76	61
29		41	109	238	329	47	59	239	127	41
Aug. 5		45	149	65	85	59	67	189	101	176
12		59	47	40	68	163	99	120	112	78
19		41	72	259	120	90	135	70	594	924
26		31	48	205	134	75	443	55	143	130
Sept. 2		25	39	141	61	52	213	54	79	333
9		57	44	48	795	67	120	57	66	127
16		21	63	251	92	45	84	63	48	89
23		34	40	130	68	45	66	67	43	71
30		84	26	134	57	277	71	50	40	74
Oct. 7	30	179	45	665	48	123	379	49	51	57
14	32	56	25	123	47	72	131	43	42	61
21	28	430	41	63	50	411	782	43	41	59
28	28	125	34	56	55	85	284	52	39	54
Nov. 4	47	302	34	102	185	70	171	48	43	98
11	34	222	45	87	79	70	120	146	45	63
18	33	112	37	59	133	80	182	65	43	92
25	39	154	39	83	70	65	115	179	59	67
Dec. 2	35	122	36	820	89	63	147	94	48	63
9	54	87	38	151	67	91	119	78	47	58
16	59	118	36	96	102	114	109	73	44	64
23	89	104	73	98	78	196	112	65	57	76
31	61	278	45	81	65	182	123	109	76	192
Maximum		430	224	820	795	607	782	313	594	924
Minimum		21	25	36	47	45	57	43	39	41

Fisher River near Copeland, N. C.

Mean Weekly Discharge in Million Gallons per day (cont.)

Week Ending	1941	1942	1943	1944	1945				
Jan. 7	105	103	135	168	194				
14	80	61	99	79	128				
21	81	77	119	108	130				
28	76	64	289	70	100				
Feb. 4	68	68	198	61	81				
11	61	112	225	74	86				
18	78	112	149	238	143				
25	62	84	118	152	191				
Mar. 4	61	74	103	110	135				
11	98	195	124	154	138				
18	88	109	145	185	107				
25	70	84	246	241	110				
Apr. 1	68	102	187	275	134				
8	107	76	129	143	101				
15	79	80	129	155	90				
22	67	63	302	132	134				
29	81	57	158	115	130				
May 6	57	65	121	138	101				
13	68	50	147	132	87				
20	47	110	148	101	234				
27	39	274	302	94	140				
June 3	39	81	171	76	99				
10	39	164	269	112	87				
17	49	169	187	111	77				
24	31	90	129	78	82				
July 1	61	106	153	53	59				
8	154	99	372	65	56				
15	105	62	349	184	76				
22	141	47	216	176	89				
29	82	73	146	71	195				
Aug. 5	57	47	104	85	218				
12	41	66	122	76	79				
19	30	158	204	50	62				
26	56	133	85	44	66				
Sept. 2	33	54	102	53	48				
9	89	262	81	41	57				
16	32	107	63	50	142				
23	25	88	79	253	518				
30	31	148	67	293	101				
Oct. 7	26	82	59	132	89				
14	21	102	56	80	75				
21	22	85	62	314	70				
28	33	93	59	119	114				
Nov. 4	38	87	60	78	72				
11	56	73	88	72	68				
18	34	66	64	72	79				
25	41	79	56	84	105				
Dec. 2	36	88	53	121	123				
9	103	105	57	101	184				
16	95	95	52	103	107				
23	65	76	53	85	93				
31	146	264	112	96	189				
Maximum	154	274	372	314	518				
Minimum	21	47	52	41	48				

Forbush Creek near Yadkinville, N. C.

Location.- Water-stage recorder, lat. 36°08'00", long. 80°32'45", 600 feet upstream from county highway bridge, three-quarters of a mile north of Forbush Church, 4½ miles upstream from mouth, and 6 miles east of Yadkinville, Yadkin County.

Drainage area.- 21.7 square miles.

Records available.- April 1940 to date.

Extremes.- 1940-45: Maximum discharge, 1,580 million gallons per day Sept. 30, 1944 (gage height, 11.02 feet), from rating curve extended above 450 million gallons per day on basis of velocity-area studies; minimum, 1.4 million gallons per day (regulated) Sept. 22, 24, 25, 1941; minimum daily, 1.6 million gallons per day (regulated) Sept. 25, 1941.

Remarks.- Diurnal fluctuation and slight regulation for short periods during low flow caused by mills above station.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1940				*14.5	15.6	17.6	21.5	21.2	5.18	4.58	11.2	8.66	
1941	11.0	8.46	9.63	9.88	6.30	8.53	20.0	4.65	4.29	2.80	4.01	7.62	8.14
1942	8.59	16.3	17.7	6.98	19.2	11.1	5.37	13.3	13.2	6.21	5.65	21.9	12.1
1943	22.8	22.1	24.7	22.2	16.1	9.37	23.7	8.46	4.83	4.64	5.31	6.85	14.2
1944	14.4	21.1	35.6	27.1	13.4	12.7	34.5	11.2	39.3	21.0	13.5	18.7	21.8
1945	16.2	23.1	21.6	14.1	15.6	8.72	7.43	6.72	36.3	8.40	15.4	26.0	16.5
Max.	22.8	23.1	35.6	27.1	19.2	17.6	34.5	21.2	39.3	21.0	15.4	26.0	21.8
Min.	8.59	8.46	9.63	6.98	6.30	8.53	5.37	4.65	4.29	2.80	4.01	6.85	8.14
Mean	14.6	18.2	21.8	15.8	14.4	11.3	18.8	10.9	17.2	7.94	9.18	15.0	14.5

\*April 6-30, 1940

Forbush Creek near Yadkinville, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1940				*43	218	52	154	325	8.4	7.8	42	23	
1941	23	16	21	32	13	116	109	16	21	5.1	5.8	21	116
1942	17	149	105	10	103	45	12	36	136	28	8.4	245	245
1943	194	116	70	129	58	37	105	38	8.4	6.5	12	30	194
1944	92	107	192	139	50	39	271	57	636	185	42	85	636
1945	48	79	141	26	85	20	18	48	396	23	106	110	396
Max.	194	149	192	139	218	116	271	325	636	185	106	245	636
Min.	17	16	21	10	13	20	12	16	8.4	5.1	5.8	21	116
Mean	74.8	93.4	106	63.2	87.8	51.5	112	86.7	201	42.6	36.0	85.7	317

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1940				*6.1	4.65	6.1	5.9	5.4	3.23	3.23	4.52	5.0	
1941	6.4	5.6	5.6	6.5	3.68	2.45	4.78	2.58	1.62	2.00	2.84	3.68	1.62
1942	4.78	7.1	7.1	5.3	5.2	4.13	2.71	3.23	3.23	3.10	3.75	5.0	2.71
1943	6.5	9.7	9.7	11	9.0	4.20	7.1	4.01	3.29	3.29	3.68	3.88	3.29
1944	6.1	5.3	9.7	12	7.8	5.2	4.01	5.6	4.20	8.4	9.0	9.7	4.01
1945	9.7	8.4	12	10	7.8	4.78	4.13	2.84	2.84	6.4	6.5	9.7	2.84
Max.	9.7	9.7	12	12	9.0	6.1	7.1	5.6	4.20	8.4	9.0	9.7	4.01
Min.	4.78	5.3	5.6	5.3	3.68	2.45	2.71	2.58	1.62	2.00	2.84	3.68	1.62
Mean	6.70	7.22	8.82	8.48	6.36	4.48	4.77	3.94	3.07	4.40	5.05	6.16	2.89

\*April 6-30, 1940

## Forbush Creek near Yadkinville, N. C.

## Mean Weekly Discharge in Million Gallons per day

Week Ending	1940	1941	1942	1943	1944	1945	
Jan. 7		12	10	14	25	25	
14		8.4	8.4	9.7	8.4	17	
21		9.0	9.0	16	21	15	
28		14	7.1	44	7.8	12	
Feb. 4		9.7	7.1	29	6.3	9.7	
11		7.1	12	43	12	11	
18		11	34	18	47	37	
25		7.8	12	12	17	32	
Mar. 4		7.1	9.0	11	12	19	
11		13	43	24	21	17	
18		9.0	11	22	30	14	
25		7.8	9.7	41	50	14	
Apr. 1		10	12	19	53	41	
8		15	7.8	16	15	14	
15	11	7.8	7.8	21	51	12	
22	21	7.1	6.5	40	28	14	
29	14	10	5.7	14	16	17	
May 6	9.0	6.5	7.1	10	18	13	
13	7.8	8.4	8.4	11	14	11	
20	6.5	5.4	26	23	10	13	
27	6.5	5.8	37	21	14	25	
June 3	50	4.52	10	13	15	13	
10	12	3.94	14	14	19	9.7	
17	28	5.7	18	7.8	11	7.8	
24	14	3.23	7.8	5.2	9.0	9.7	
July 1	12	23	5.3	9.0	5.8	5.9	
8	17	18	5.9	28	17	7.8	
15	23	7.8	6.1	28	79	7.1	
22	39	48	3.42	20	43	7.8	
29	9.0	10	5.7	25	10	7.8	
Aug. 5	12	6.5	7.8	9.7	9.0	5.9	
12	7.8	4.13	16	12	21	14	
19	66	3.04	21	7.1	8.4	4.72	
26	8.4	6.5	12	5.2	7.1	5.0	
Sept. 2	8.4	3.49	6.1	8.4	8.4	3.55	
9	5.7	8.4	37	4.97	6.0	4.65	
16	5.0	2.97	6.2	4.13	14	43	
23	4.20	2.31	4.59	5.4	15	98	
30	4.84	4.07	7.1	4.78	132	9.0	
Oct. 7	3.94	2.81	4.46	4.26	19	9.7	
14	4.59	2.58	7.8	4.33	13	7.8	
21	4.72	2.42	6.3	4.91	41	6.5	
28	4.33	3.08	6.5	5.0	16	10	
Nov. 4	10	3.68	6.1	4.91	11	7.1	
11	6.3	4.13	5.4	6.5	10	7.1	
18	21	3.94	5.3	5.0	10	8.4	
25	7.8	4.13	5.9	4.72	12	23	
Dec. 2	7.8	4.07	9.0	4.65	25	27	
9	6.5	9.7	14	5.5	18	37	
16	7.8	7.8	9.0	4.91	32	13	
23	8.4	6.2	6.3	4.97	12	11	
31	12	7.8	54	12	13	45	
Maximum		48	54	44	132	98	
Minimum		2.31	3.42	4.13	5.8	3.55	

South Yadkin River near Mocksville, N. C.

Location.- Water-stage recorder, lat. 35°50'40", long. 80°39'45", at highway bridge 1 mile upstream from Little Creek,  $4\frac{1}{2}$  miles upstream from Hunting Creek, and  $5\frac{1}{4}$  miles southwest of Mocksville, Davie County.

Drainage area.- 313 square miles.

Records available.- October 1938 to date.

Extremes.- 1938-45: Maximum discharge, 5,200 million gallons per day Sept. 19, 1945; minimum 44 million gallons per day Oct. 12, 1941 (gage height 1.48 feet).

Maximum stage known, 22.6 feet sometime in October 1929, from flood reference mark cut in tree at gage by local resident.

Remarks.- Records good except those for periods of no gage-height record, which are fair.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1938										82.0	205	176	
1939	177	616	408	205	149	159	159	210	83.3	90.4	89.8	119	203
1940	141	203	175	175	125	110	89.1	355	101	66.5	130	145	151
1941	148	117	145	183	94.3	87.9	406	88.5	62.1	52.1	69.8	101	130
1942	109	269	332	131	178	201	96.9	181	202	93.7	91.1	285	180
1943	430	293	282	268	205	152	388	120	93.7	79.5	93.0	109	209
1944	199	287	448	360	240	145	162	95.6	178	433	179	216	245
1945	222	311	237	194	181	103	107	80.8	567	134	175	366	222
Max.	430	616	448	360	240	201	406	355	567	433	205	366	245
Min.	109	117	145	131	94.3	87.9	89.1	80.8	62.1	52.1	69.8	101	130
Mean	204	299	290	217	167	137	201	162	184	129	129	190	191

South Yadkin River near Mocksville, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1938										109	1160	717	
1939	484	1280	1890	335	180	413	376	1340	120	289	115	296	1890
1940	443	698	324	484	474	208	198	2530	374	107	420	665	2530
1941	264	230	302	562	181	576	2240	169	154	81	142	291	2240
1942	171	1360	1300	187	879	685	366	541	1650	200	115	2250	2250
1943	2090	879	724	1030	385	413	1300	266	168	98	163	319	2090
1944	642	1180	1330	1180	565	300	614	222	1800	2520	659	492	2520
1945	395	724	614	336	428	129	406	164	4440	273	541	1130	4440
Max.	2090	1360	1890	1180	879	685	2240	2530	4440	2520	1160	2250	4440
Min.	171	230	302	187	180	129	198	164	120	81	115	291	1890
Mean	641	907	926	588	442	389	786	747	1244	460	414	770	2566

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1938										72	83	112	
1939	135	221	199	163	125	92	87	82	72	76	83	88	72
1940	71	103	135	116	83	75	51	61	66	59	74	83	51
1941	107	98	95	105	65	50	109	65	47	47	59	65	47
1942	84	104	163	101	81	86	56	57	76	78	83	101	56
1943	125	148	144	150	151	102	134	82	78	72	81	78	72
1944	105	96	156	199	161	89	88	63	65	129	123	158	63
1945	156	145	176	145	123	74	67	59	58	107	110	129	58
Max.	156	221	199	199	161	102	134	82	78	129	123	158	72
Min.	71	96	95	101	65	50	51	57	47	47	59	65	47
Mean	112	131	153	140	113	81.1	84.6	67.0	66.0	80.0	87.0	102	59.9

South Yadkin River near Mocksville, N. C.,

Mean Weekly Discharge in Million Gallons per day

Week Ending	1938	1939	1940	1941	1942	1943	1944	1945
Jan. 7		174	116	207	120	327	255	295
14		163	147	129	100	154	134	242
21		161	207	123	114	366	323	205
28		149	103	141	103	381	123	175
Feb. 4		459	120	117	114	872	103	153
11		704	151	103	216	506	148	157
18		736	152	147	461	229	467	391
25		279	374	110	261	175	394	483
Mar. 4		109	183	101	177	152	193	260
11		398	171	200	717	248	276	237
18		317	207	144	250	245	331	185
25		229	149	118	196	470	636	203
Apr. 1		227	157	143	229	226	724	320
8		234	153	306	148	169	277	187
15		181	151	161	147	171	520	156
22		197	233	117	118	484	395	187
29		206	172	166	105	269	249	244
May 6		165	121	107	98	186	224	171
13		156	107	127	90	178	278	145
20		147	88	89	147	216	216	287
27		145	113	74	390	250	252	145
June 3		213	198	68	124	165	188	132
10		211	105	67	263	177	180	117
17		122	143	76	359	152	179	101
24		121	91	54	111	120	115	101
July 1		110	83	190	105	187	92	80
8		183	86	318	153	334	115	77
15		149	112	345	84	808	253	74
22		147	90	872	72	237	200	99
29		132	59	187	76	245	107	171
Aug. 5		142	101	118	79	147	115	106
12		109	93	98	153	107	116	80
19		439	1130	70	249	147	81	81
26		231	168	80	265	86	68	83
Sept. 2		112	195	77	101	129	84	62
9		92	123	84	506	90	76	72
16		83	89	55	146	80	102	267
23		75	74	51	86	114	206	1910
30		76	73	59	103	90	355	162
Oct. 7	127	129	63	52	88	73	846	145
14	73	82	65	48	87	73	172	130
21	76	79	66	48	93	86	397	111
28	92	77	65	53	111	81	433	156
Nov. 4	89	83	113	68	95	83	151	116
11	207	85	79	80	89	105	134	112
18	105	84	231	65	89	92	128	122
25	403	103	101	68	90	90	136	233
Dec. 2	145	90	97	66	127	90	358	276
9	167	93	87	129	225	94	202	424
16	134	99	95	90	153	88	311	190
23	116	123	111	81	109	78	175	154
31	287	163	283	111	623	170	173	698
Maximum		736	1130	872	717	872	846	1910
Minimum		75	59	48	72	73	68	62

South Yadkin River at Cooleemee, N. C.

Location.- Water-stage recorder, lat. 35°48'30", long. 80°33'45", just downstream from tailrace of Erwin Cotton Mills at Cooleemee, Davie County, and 2 $\frac{1}{4}$  miles downstream from Bear Creek. Datum of gage is 624.57 feet above mean sea level, datum of 1929, supplementary adjustment of 1936 (levels by Corps of Engineers, U. S. Army).

Drainage area.- 569 square miles.

Records available.- June 1928 to date.

Average discharge.- 15 years (1930-45), 395 million gallons per day.

Extremes.- 1928-45: Maximum discharge, 16,000 million gallons per day Oct. 3, 1929 (gage height, 32.25 feet) by computation of flow over dam verified by records of other streams; minimum, 6.5 million gallons per day Nov. 25, 1931 (gage height, 0.40 foot); minimum, 14.9 million gallons per day Oct. 12, 19, 1941.

Remarks.- Large diurnal fluctuation and occasional regulation during low and medium flow caused by Erwin Cotton Mills above station.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1928							215	1382	1189	399	260	241	
1929	260	775	1156	450		329	308				717	549	
1930	523	553	453	341	260	247	143	165	122	114	182	335	285
1931	345	207	346	756	486	198	318	236	116	97.5	109	284	292
1932	736	360	521	405	298	410	203	355	110	885	1027	885	517
1933	579	620	457	420	492	214	205	253	258	179	144	163	331
1934	202	329	717	672	310	275	270	320	299	269	307	530	375
1935	565	501	767	700	347	220	321	203	246	188	245	202	375
1936	1439	895	821	1215	337	430	282	408	200	829	286	576	643
1937	1723	734	526	562	499	330	276	552	329	827	413	341	594
1938	415	349	413	349	279	351	440	306	162	136	364	327	324
1939	309	1082	716	362	256	258	324	457	156	157	152	224	367
1940	258	386	320	339	268	216	213	699	200	123	273	279	298
1941	296	240	291	337	181	173	756	181	127	90.4	126	200	251
1942	211	519	639	264	399	394	200	402	424	183	178	486	357
1943	803	594	578	539	363	264	636	207	158	130	153	187	384
1944	378	536	891	684	398	264	277	170	317	825	340	409	457
1945	412	614	426	345	360	187	216	153	1081	237	310	756	422
Max.	1723	1082	1156	1215	499	430	756	1382	1189	885	1027	885	643
Min.	202	207	291	264	181	173	143	165	110	90.4	109	163	251
Mean	556	547	590	514	346	280	311	379	323	333	310	387	392

South Yadkin River at Cooleemee, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1928							652	7110	3890	911	296	377	
1929	370	3730	4440	1070		853	866				2650	1250	
1930	1050	1560	1190	623	481	597	198	357	211	200	439	1800	1800
1931	1450	256	1270	2750		286	1280	743	207	139	149	1100	2750
1932	2990	749	1810	937	592	1650	430	2020	205	8910	4940	2650	8910
1933	1230	1230	1130	1010	1590	280	570	1090	1010	291	203	291	1590
1934	422	2580	3280	3290	1720	1230	659	969	1090	969	2380	3130	3290
1935	2250	1840	2690	2230	449	295	782	598	827	486	775	356	2690
1936	5630	3400	2660	4330	433	1810	846	1580	665	5560	343	1770	5630
1937	5100	1340	678	1580	1130	628	678	1940	1100	5390	1220	481	5390
1938	736	516	969	646	612	1030	1680	963	224	236	2290	1630	2290
1939	904	2200	2970	581	323	685	801	3180	282	488	270	581	3180
1940	950	1420	685	956	1410	380	652	4960	885	203	1110	1180	4960
1941	547	513	629	1180	370	1030	3200	347	368	199	230	428	3200
1942	332	2620	2520	350	1910	1270	736	1450	3790	446	260	3400	3790
1943	3490	1960	1670	2240	743	698	1940	420	250	185	253	612	3490
1944	1320	2240	3000	2510	1090	643	1000	362	3270	4700	1850	1420	4700
1945	891	1610	1180	646	1350	249	788	273	6780	434	930	2140	6780
Max.	5630	3730	4440	4330	1720	1810	3200	7110	6780	8910	4940	3400	8910
Min.	332	256	629	350	323	249	198	273	205	139	149	291	1590
Mean	1745	1751	1928	1584	947	801	987	1668	1474	1750	1144	1366	4028

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1928							98	72	344	291	221	188	
1929	213	185	372	317		210	123				376	404	
1930	394	360	335	185	174	150	74	35	56	47	63	90	35
1931	159	140	151	284		113	94	61	54	39	51	115	39
1932	217	212	197	258	168	125	65	58	30	62	364	309	30
1933	393	355	367	314	254	147	90	74	98	101	72	83	72
1934	118	97	185	247	162	117	76	96	106	103	90	183	76
1935	231	247	311	349	268	121	135	94	134	136	129	86	86
1936	192	249	356	417	284	209	162	170	96	196	212	239	96
1937	610	522	389	369	317	226	154	172	151	161	265	267	151
1938	271	268	286	233	187	196	134	95	71	62	135	141	62
1939	194	323	258	270	180	120	129	129	96	78	92	114	78
1940	136	166	179	192	117	90	36	45	53	30	99	117	30
1941	182	135	151	181	114	28	192	67	16	15	59	114	15
1942	61	136	306	193	155	177	93	110	128	114	112	156	61
1943	248	295	306	273	255	140	185	89	44	54	59	69	44
1944	166	130	261	335	269	122	96	59	78	230	185	271	59
1945	267	236	300	255	219	101	90	58	67	191	185	257	58
Max.	610	522	389	417	317	226	192	172	344	291	376	404	151
Min.	61	97	151	181	114	28	36	35	16	15	51	69	15
Mean	238	239	277	275	208	141	113	87	95	112	154	178	62

South Yadkin River at Cooleemee, N. C.

Mean Weekly Discharge in Million Gallons per day

Week Ending	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937
Jan. 7		271	533	574	795	769	211	510	2030	2960
14		293	436	362	1630	678	265	544	1180	724
21		251	678	278	370	452	180	297	2340	2240
28		238	484	232	269	484	171	988	665	1130
Feb. 4		222	592	198	492	428	187	342	453	1150
11		1120	775	197	359	665	163	306	853	775
18		454	472	210	406	698	160	956	1710	627
25		434	398	223	303	678	229	388	610	724
Mar. 4		2290	360	234	236	428	1410	367	413	620
11		1510	652	269	846	425	521	417	420	565
18		1090	422	213	314	401	256	1300	917	517
25		704	425	348	507	627	320	479	988	497
Apr. 1		541	352	827	643	396	1400	1180	1160	435
8		389	413	1560	427	406	355	775	2780	484
15		376	356	427	508	499	1460	509	1270	425
22		505	320	333	309	448	652	795	537	401
29		513	286	609	319	340	298	685	474	904
May 6		508	266	284	377	561	229	362	409	627
13		397	251	632	366	762	224	350	355	483
20			321	297	269	449	280	366	328	624
27			229	808	226	283	205	361	303	359
June 3		307	222	283	198	269	640	276	280	389
10		390	315	207	168	220	492	240	483	390
17		335	223	183	736	212	201	231	717	298
24	225	264	244	185	470	182	174	215	300	350
July 1	659	329	200	177	345	226	176	165	260	278
8	198	298	140	646	265	162	187	240	300	354
15	264	365	122	251	149	163	233	518	214	301
22	183	231	153	190	198	204	330	273	274	220
29	172	375	153	261	159	267	345	314	213	252
Aug. 5	121	345	150	181	279	309	214	185	413	296
12	1630	181	214	231	950	167	390	169	827	270
19	3750		143	191	187	445	239	189	289	318
26	449		189	358	171	182	291	300	242	1020
Sept. 2	503		103	159	112	156	428	154	305	866
9	1750		119	141	119	419	214	402	232	424
16	437		120	101	86	285	295	265	178	276
23	1940		143	111	93	191	368	167	163	202
30	678		115	107	143	164	328	176	232	238
Oct. 7	521		94	80	280	198	324	172	464	340
14	344		98	116	176	174	458	177	717	266
21	313		109	93	2940	179	188	171	1970	1580
28	456	698	143	91	396	172	164	166	393	1210
Nov. 4	298	453	134	117	1700	158	177	245	300	501
11	276	440	157	103	904	149	185	231	300	312
18	252	1030	260	109	466	139	164	391	300	607
25	253	917	193	115	808	138	211	189	265	328
Dec. 2	241	589	152	109	762	138	1490	205	256	392
9	230	678	620	184	335	151	634	183	446	346
16	255	433	241	315	782	143	266	249	508	312
23	255	516	198	393	531	191	302	191	904	304
31	223	547	322	289	1880	179	262	181	544	396
Maximum			775	1560	2940	769	1490	1300	2780	2960
Minimum			94	80	86	138	160	154	163	202

South Yadkin River at Cooleemee, N. C.

Mean Weekly Discharge in Million Gallons per day (cont.)

Week Ending	1938	1939	1940	1941	1942	1943	1944	1945	
Jan. 7	483	313	198	405	235	631	499	587	
14	422	293	255	256	167	287	242	457	
21	337	290	405	260	231	788	614	360	
28	440	267	184	278	213	659	224	300	
Feb. 4	368	769	211	240	228	1550	193	263	
11	320	1280	291	202	394	1060	276	280	
18	303	1230	293	316	917	483	866	827	
25	406	461	717	224	490	348	762	975	
Mar. 4	352	1960	348	200	339	313	337	470	
11	520	749	328	404	1450	527	543	442	
18	482	563	388	288	446	505	659	323	
25	358	383	259	236	350	956	1250	349	
Apr. 1	314	368	280	290	431	446	1480	583	
8	383	417	286	556	296	336	493	324	
15	411	326	297	297	295	335	1060	275	
22	351	344	438	220	240	1050	743	337	
29	276	359	347	299	216	486	443	444	
May 6	246	298	240	209	204	340	375	299	
13	229	260	205	240	192	317	501	256	
20	253	244	169	168	318	362	330	641	
27	322	250	196	142	930	453	410	281	
June 3	334	338	539	134	263	298	315	251	
10	287	340	202	126	419	307	320	210	
17	270	209	258	151	743	268	346	187	
24	463	208	192	101	239	211	207	187	
July 1	413	190	176	379	219	304	158	148	
8	216	396	189	635	304	526	180	170	
15	227	292	282	548	194	1300	393	135	
22	474	297	265	1650	145	428	393	210	
29	904	273	118	380	163	395	180	355	
Aug. 5	366	268	175	254	156	258	210	193	
12	557	211	164	200	269	197	205	171	
19	224	879	2300	143	569	242	145	136	
26	174	652	315	160	678	148	116	161	
Sept. 2	159	213	377	151	207	220	179	112	
9	186	181	242	191	1120	174	135	136	
16	172	151	167	107	288	134	199	801	
23	158	132	134	94	165	171	335	3410	
30	139	138	138	109	196	149	641	265	
Oct. 7	145	234	114	95	166	125	1690	241	
14	127	154	121	81	159	125	301	243	
21	120	129	123	85	183	134	678	208	
28	152	114	120	84	227	138	859	266	
Nov. 4	138	147	209	131	190	147	270	213	
11	335	140	152	148	172	179	238	198	
18	175	140	528	118	170	140	232	220	
25	762	181	207	120	179	146	238	388	
Dec. 2	276	154	194	122	232	143	736	510	
9	328	169	170	233	435	160	371	891	
16	234	167	188	183	282	145	659	375	
23	196	212	242	165	209	142	303	296	
31	545	347	508	231	982	296	299	1470	
Maximum	904	1960	2300	1650	1450	1550	1690	3410	
Minimum	120	114	114	81	145	125	116	112	

# Rocky River at Turnersburg, N. C.

Location.- Water-stage recorder, lat. 35°54'35", long. 80°48'10", 500 feet downstream from bridge on U. S. Highway 21 at Turnersburg, Iredell County, and 1 mile downstream from Mud Creek. Datum of gage is 724.10 feet above mean sea level, datum of 1929, supplementary adjustment of 1936.

Drainage area.- 85.5 square miles.

Records available.- April 1940 to date.

Extremes.- 1940-45: Maximum discharge, 3,930 million gallons per day Sept. 18, 1945; minimum, .6 million gallons per day (regulated) Oct. 18, 1940, Oct. 26, 1941; minimum daily, 14 million gallons per day Oct. 26, 1941.

A stage of 18.0 feet was reached by a flood sometime during the years 1936 to 1938, from reference mark witnessed by local resident.

Remarks.- Considerable diurnal fluctuation at low flow caused by mills above station.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1940				*56.9	38.8	35.9	32.4	113	30.5	24.0	42.3	49.4	
1941	48.7	40.1	49.0	58.4	32.2	29.1	151	34.2	25.8	18.9	26.4	37.5	46.1
1942	41.3	84.6	101	46.4	60.1	66.5	32.8	57.5	60.6	30.1	32.8	99.5	59.4
1943	127	95.0	88.5	94.3	70.4	49.1	113	46.0	32.8	29.5	32.2	37.5	67.8
1944	64	89.1	136	110	78.8	50.3	51.9	30.6	81.4	130	56.0	65.2	78.8
1945	69.8	93.7	76.9	65.9	64.3	38.0	33.6	29.1	255	45.9	59.2	124	79.5
Max.	127	95.0	136	110	78.8	66.5	151	113	255	130	59.2	124	79.5
Min.	41.3	40.1	49.0	46.4	32.2	29.1	32.4	29.1	25.8	18.9	26.4	37.5	46.1
Mean	58.6	80.5	90.3	72.0	57.4	44.8	69.1	51.7	81.0	46.4	41.5	68.9	66.3

\*April 23-30, 1940

Rocky River at Turnersburg, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1940				*71	99	54	74	121	59	41	92	220	
1941	78	67	94	153	68	127	1390	79	90	39	47	79	1390
1942	63	581	552	66	320	293	68	266	477	45	40	795	795
1943	795	329	212	413	217	124	364	131	62	35	58	101	795
1944	180	426	453	355	275	136	229	46	1310	762	133	121	1310
1945	120	227	202	116	205	50	59	108	3060	88	217	417	3060
Max.	795	581	552	413	320	293	1390	266	3060	762	217	795	3060
Min.	63	67	94	66	68	50	59	46	59	35	40	79	795
Mean	247	326	303	196	197	131	364	125	843	168	98	289	147

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1940				*47	28	25	17	22	23	19	26	30	
1941	38	34	35	36	21	16	39	23	16	14	21	23	14
1942	32	40	51	37	30	34	21	19	23	23	29	34	19
1943	49	56	55	55	49	34	50	32	25	25	28	25	25
1944	39	36	52	66	50	32	31	20	20	48	44	52	20
1945	52	48	59	50	45	28	24	20	19	34	35	48	19
Max.	52	56	59	66	50	34	50	32	25	48	44	52	25
Min.	32	34	35	36	21	16	17	19	16	14	21	23	14
Mean	42	43	50	48	37	28	30	23	21	27	30	35	19

\*April 23-30, 1940

Rocky River at Turnersburg, N. C,

Mean Weekly Discharge in Million Gallons per day

Week Ending	1940	1941	1942	1943	1944	1945			
Jan. 7		63	45	88	79	89			
14		44	37	57	44	76			
21		42	43	111	99	66			
28		48	39	187	44	57			
Feb. 4		41	44	176	39	50			
11		36	74	158	51	51			
18		47	145	78	156	114			
25		39	71	63	102	141			
Mar. 4		37	57	57	62	83			
11		64	219	77	83	78			
18		50	75	75	103	62			
25		42	62	143	198	69			
Apr. 1		46	70	75	207	99			
8		91	52	60	88	63			
15		51	52	63	149	53			
22		39	43	182	124	63			
29	58	56	39	81	83	84			
May 6	43	38	36	61	92	58			
13	38	42	32	61	89	51			
20	32	30	52	86	59	99			
27	33	25	126	78	81	56			
June 3	50	24	43	56	62	48			
10	38	24	80	55	68	43			
17	42	30	116	50	56	37			
24	30	19	41	41	38	38			
July 1	30	51	39	54	32	30			
8	34	96	45	96	41	28			
15	39	147	32	222	92	27			
22	28	353	25	79	48	35			
29	21	51	28	78	34	44			
Aug. 5	36	45	27	51	36	32			
12	37	37	41	44	34	27			
19	351	26	85	60	28	35			
26	48	33	86	34	23	30			
Sept. 2	59	28	33	41	32	21			
9	37	38	16	34	25	28			
16	28	22	36	28	33	85			
23	25	19	26	37	57	900			
30	26	23	32	32	225	72			
Oct. 7	21	19	28	28	172	53			
14	24	17	30	28	65	43			
21	24	17	31	31	218	36			
28	23	20	32	31	98	55			
Nov. 4	41	26	33	31	54	38			
11	30	32	32	38	48	36			
18	64	24	32	31	46	43			
25	36	25	33	30	48	81			
Dec. 2	34	24	42	30	89	92			
9	31	47	60	32	62	142			
16	32	34	46	29	84	64			
23	36	32	37	28	56	53			
31	96	41	245	59	56	238			
Maximum		353	245	222	225	900			
Minimum		17	25	28	23	21			

# Third Creek at Cleveland, N. C.

Location.- Water-stage recorder, lat. 35°44'40", long. 80°40'55", at county road bridge three-quarters of a mile north of Cleveland, Rowan County, and 7 miles upstream from Fourth Creek. Datum of gage is 684.47 feet above mean sea level, datum of 1929, supplementary adjustment of 1936.

Drainage area.- 87.4 square miles.

Records available.- April 1940 to date.

Extremes.- 1940-45: Maximum discharge, 2,530 million gallons per day Sept. 19, 1945; minimum, 12 million gallons per day Oct. 9, 24, 1941 (gage height, 0.99 foot).

Maximum stage known 22.5 feet sometime in July 1916, from reference mark as witnessed by local resident. Creek channel has been improved considerably by dredging since 1916.

Remarks.- Records good except those for periods of no gage-height record, which are poor.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1940					34.9	33.7	24.9	80.8	29.3	18.7	50.3	45.3	
1941	42.7	35.4	45.1	49.7	22.0	38.1	114	29.8	17.1	14.1	17.4	29.2	38.0
1942	30.5	77.5	103	37.6	52.1	53.0	26.8	57.8	48.5	28.8	27.4	66.5	50.6
1943	12.1	87.2	90.4	67.2	40.5	68.5	103	44.3	30.8	23.1	25.6	30.4	60.9
1944	69.8	91.7	146	143	51.1	34.4	44.6	26.7	110	154	64.5	71.1	84.0
1945	84.0	107	70.4	56.9	51.6	30.0	76.9	40.8	28.7	41.9	53.9	15.2	87.2
Max.	84.0	107	146	143	52.1	68.5	114	80.8	110	154	64.5	71.1	87.2
Min.	12.1	35.4	45.1	37.6	22.0	30.0	24.9	26.7	17.1	14.1	17.4	29.2	38.0
Mean	47.8	79.7	90.9	70.8	42.0	43.0	65.0	46.7	44.1	46.8	39.9	43.0	64.1

Third Creek at Cleveland, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1940					110	57	65	743	107	30	262	146	
1941	83	63	105	252	32	333	574	96	45	25	23	73	574
1942	49	646	621	66	323	194	78	353	417	134	46	370	646
1943	672	536	291	403	68	605	665	472	89	42	53	99	672
1944	376	494	717	646	169	99	169	72	1510	1980	444	281	1980
1945	248	359	292	132	120	38	904	97	2260	78	212	665	2260
Max.	672	646	717	646	323	605	904	743	2260	1980	444	665	2260
Min.	49	63	105	66	32	38	65	72	45	25	23	73	574
Mean	286	420	405	300	137	221	409	306	738	382	173	272	1230

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1940					25	19	16	17	17	17	19	26	
1941	33	31	31	27	17	14	29	19	14	13	16	17	13
1942	23	30	43	29	25	23	15	14	19	22	25	30	14
1943	34	41	41	41	31	25	34	19	21	21	22	19	19
1944	30	34	43	52	33	22	21	18	18	31	36	45	18
1945	42	42	51	44	37	23	19	20	19	34	36	51	19
Max.	42	42	51	52	37	25	34	20	21	34	36	51	19
Min.	23	30	31	27	17	14	15	14	14	13	16	17	13
Mean	32	35	42	39	28	21	22	18	18	23	26	31	17

Third Creek at Cleveland, N. C.

Mean Weekly Discharge in Million Gallons per day

Week Ending	1940	1941	1942	1943	1944	1945		
Jan. 7		61	36	50	84	140		
14		37	27	37	40	93		
21		37	31	165	128	67		
28		39	28	158	41	53		
Feb. 4		35	32	171	36	44		
11		32	68	182	56	47		
18		43	140	56	182	172		
25		33	62	46	84	152		
Mar. 4		33	56	42	58	74		
11		62	241	78	89	65		
18		39	61	89	94	54		
25		38	55	158	194	57		
Apr. 1		48	71	59	259	104		
8		96	43	46	68	53		
15		41	43	46	267	46		
22		31	32	130	179	53		
29	51	35	30	54	76	76		
May 6	35	26	30	41	67	50		
13	32	25	28	42	55	43		
20	28	21	43	39	49	72		
27	30	19	114	45	43	45		
June 3	54	17	33	32	47	41		
10	37	17	72	48	43	35		
17	36	21	89	145	32	30		
24	26	17	30	36	26	28		
July 1	28	114	28	67	22	24		
8	27	134	32	126	32	36		
15	30	112	30	211	75	34		
22	25	192	27	53	49	31		
29	18	43	21	41	30	193		
Aug. 5	21	30	23	32	39	88		
12	20	25	23	28	27	54		
19	266	21	148	34	23	36		
26	34	42	50	21	19	32		
Sept. 2	33	28	24	101	25	22		
9	37	24	121	45	19	32		
16	37	16	30	23	31	275		
23	17	15	21	33	173	853		
30	26	15	29	23	244	65		
Oct. 7	17	14	23	21	390	50		
14	18	14	24	21	50	40		
21	19	13	24	22	163	36		
28	19	16	45	25	65	44		
Nov. 4	40	16	30	25	38	37		
11	20	18	26	30	37	36		
18	110	17	26	25	36	41		
25	32	17	27	25	40	65		
Dec. 2	31	17	39	25	165	83		
9	28	36	80	26	65	176		
16	36	25	41	25	120	61		
23	39	27	32	21	50	55		
31	78	32	106	49	52	318		
Maximum		192	241	211	390	853		
Minimum		13	21	21	19	22		

Abbotts Creek at Lexington, N. C.

Location.- Water-stage recorder, lat. 35°48'30", long. 80°14'10", about 1,000 feet upstream from first bridge below U. S. Highway 64 and  $1\frac{1}{2}$  miles southeast of Lexington, Davidson County.

Drainage area.- 174 square miles (including small unnamed tributary between gage and bridge).

Records available.- March 1940 to date.

Extremes.- 1940-45: Maximum discharge, 5,000 million gallons per day Sept, 18, 1945; minimum, 1.2 million gallons per day Oct. 22, 1941.

Remarks.- City of Lexington diverts an average of 1.3 million gallons per day above station for water supply. City of Thomasville diverts its water supply from, and returns its sewage to stream above station.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1940				103	89.1	52.5	56.7	239	42.1	12.4	161	95.6	
1941	113	57.6	122	114	22.4	31.8	185	10.2	7.7	3.00	6.4	15.1	57.6
1942	22.6	108					*18.5	81.4	22.4	45.2	26.8	106	
1943	262	205	178	172	59.2	169	116	55.0	36.4	14.3	19.3	42.9	110
1944	163	229	357	337	47.1	21.8	121	18.7	91.1	123	68.5	104	140
1945	112	279	96.9	60.7	48.1	18.2	96.3	12.1	309	39.0	56.7	320	120
Max.	262	279	357	337	89.1	169	185	239	309	123	161	320	140
Min.	22.6	57.6	96.9	60.7	22.4	18.2	*18.5	10.2	7.7	3.00	6.4	15.1	58
Mean	135	176	189	157	53.2	58.7	98.9	69.4	84.8	39.5	56.5	114	107

\*July 25-31, 1942

Abbotts Creek at Lexington, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1940				388	1010	526	320	3420	196	36	1370	417	
1941	397	230	565	417	43	138	1250	21	36	8.4	10	34	1250
1942	52	92					* 31	782	123	365	79	336	
1943	1510	1400	646	1720	297	1690	956	975	305	21	55	220	1720
1944	743	1640	1760	2510	111	59	1020	81	2130	1720	421	581	2510
1945	496	1250	276	225	204	41	820	28	4130	121	207	1580	4130
Max.	1510	1640	1760	2510	1010	1690	1250	3420	4130	1720	1370	1580	4130
Min.	52	92	276	225	43	41	* 31	21	36	8.4	10	34	1250
Mean	640	922	812	1050	333	491	733	885	1150	379	357	528	2400

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1940				45	23	15	13	9.0	9.0	8.4	20	32	
1941	50	33	39	35	10	8.4	12	4.52	2.26	1.29	2.91	7.8	1.29
1942	9.0	23					*9.0	5.9	4.72	14	19	33.6	
1943	38	52	48	48	30	19	23	5.8	10	10	14	10	5.8
1944	41	34	64	68	22	7.8	7.8	5.2	3.23	24	25	48	3.23
1945	43	34	49	31	26	7.8	7.8	3.88	3.23	26	26	54	3.23
Max.	50	52	64	68	30	19	23	9.0	10	26	26	54	5.8
Min.	9.0	23	39	31	10	7.8	7.8	3.88	2.26	1.29	2.91	7.8	1.29
Mean	36	35	50	45	22	11.6	12.1	5.7	5.4	14.0	17.8	30.9	3.39

\* July 25-31, 1942

## Abbotts Creek at Lexington, N. C.

## Mean Weekly Discharge in Million Gallons per day

Week Ending	1940	1941	1942	1943	1944	1945		
Jan. 7		218	19	68	291	205		
14		69	12	49	63	144		
21		124	29	508	291	74		
28		68	28	256	56	56		
Feb. 4		48	32	348	41	41		
11		39	48	543	87	50		
18		101	28	118	521	479		
25		46	68	65	249	501		
Mar. 4		42		50	101	139		
11		174		158	236	158		
18		78		199	268	66		
25		56		322	453	80		
Apr. 1		231		94	616	56		
8	77	220		56	111	45		
15	151	71		90	724	35		
22	106	43		485	287	48		
29	90	127		88	270	118		
May 6	45	37		47	67	46		
13	36	28		41	58	30		
20	26	19		41	42	81		
27	82	13		117	39	45		
June 3	319	32		35	24	30		
10	45	21		344	19	21		
17	26	39		282	23	21		
24	26	13		49	32	18		
July 1	23	42		43	12	12		
8	35	127		243	32	112		
15	79	183		156	289	147		
22	104	409		59	176	115		
29	22	91		40	30	39		
Aug. 5	20	21	12	20	32	23		
12	14	12	37	12	31	16		
19	950	6.3	242	10	11	12		
26	38	9.0	59	5.9	8.4	9.0		
Sept. 2	94	5.9	17	211	12	4.33		
9	52	17	42	81	5.2	14		
16	49	5.3	17	23	34	98		
23	17	3.29	7.8	30	28	1170		
30	13	5.9	24	15	320	43		
Oct. 7	8.4	4.39	16	11	320	52		
14	12	2.63	22	12	36	42		
21	12	1.88	26	17	101	30		
28	13	2.22	120	16	71	36		
Nov. 4	57	4.07	32	16	31	30		
11	24	5.2	23	26	28	27		
18	523	6.5	20	18	26	32		
25	59	8.4	36	17	31	91		
Dec. 2	49	7.8	46	17	249	94		
9	36	16	183	25	68	361		
16	48	15	83	18	209	82		
23	114	11	57	13	59	68		
31	187	20	106	114	56	775		
Maximum		409		543	724	1170		
Minimum		1.88		5.9	5.2	4.33		

Uwharrie River near Eldorado, N. C.

Location.- Water-stage recorder, lat. 35°25'25", long. 80°00'40", a quarter of a mile upstream from State Highway 109, 1 mile upstream from McLeans Creek and 3 miles south of Eldorado, Montgomery County.

Drainage area.- 347 square miles.

Records available.- October 1938 to date.

Extremes .- 1938-45: Maximum discharge, 15,050 million gallons per day Sept. 18, 1945; minimum, .3 million gallon per day Sept 21, Oct. 13, 14, 1941; minimum daily, .3 million gallon per day Oct. 13, 1941. Flood of August 1928 reached a stage of 22.2 feet, from floodmark established by local resident.

Remarks.- Marked diurnal fluctuation and some regulation for short periods at low flow caused by gristmill above station.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1938										18.8	118.	270	
1939	235	988	603	252	124	71.7	146	360	40.2	27.5	33.8	67.8	241
1940	127	376	260	251	157	81.4	34.4	182	20.4	5.98	222	98.8	151
1941	155	95.0	279	322	51.9	40.9	112	9.82	8.27	1.49	1.44	23.7	91.7
1942	19.3	240	437	81.4	221	137	54.4	111	341	46.8	63.0	271	168
1943	524	269	483	297	133	148	417	39.3	50.9	11.1	18.5	51.6	203
1944	328	519	707	513	103	43.1	391	47.4	129	351	121	174	285
1945	209	550	243	255	113	26.6	242	38.9	1180	87	66	581	297
Max.	524	988	707	513	221	148	417	360	1180	351	222	581	297
Min.	19.3	95	243	81.4	51.9	26.6	34.4	9.82	8.27	1.49	1.44	23.7	91.7
Mean	228	434	430	282	129	78.4	200	113	253	68.7	80.5	192	205

Uwharrie River near Eldorado, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1938										78	1560	2840	
1939	1200	3820	3650	698	559	227	943	2470	101	127	123	475	3820
1940	1120	2740	1380	1410	1640	371	151	2730	81	17	2570	310	2740
1941	625	517	1520	2240	103	270	640	28	110	3.88	6.5	94	2240
1942	36	2380	2340	258	2910	853	112	1650	4610	231	409	1120	4610
1943	3290	1420	3490	2730	1620	1450	1740	327	552	19	83	451	3490
1944	2680	2220	2680	3640	258	136	4280	222	2940	6650	1000	730	6650
1945	930	2580	724	2070	395	47	1650	222	12900	412	161	3020	12900
Max.	3290	3820	3650	3640	2910	1450	4280	2730	12900	6650	2570	3020	12900
Min.	36	517	724	258	103	47	112	28	81	3.88	6.5	94	2240
Mean	1410	2240	2250	1860	1070	479	1360	1090	3040	942	739	1130	5210

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1938										5.2	9.7	39	
1939	85	202	146	122	60	23	23	47	11	10	12	21	10
1940	43	65	111	106	52	26	6.5	5.8	5.8	1.81	7.1	34	1.81
1941	70	52	67	72	22	14	21	3.1	.39	.32	.45	3.55	.32
1942	8.4	27	75	37	18	28	23	7.8	14	8.4	27	53	7.8
1943	82	85	87	96	45	32	41	5.0	7.8	3.23	7.8	8.4	3.23
1944	48	50	137	157	45	13	22	10	5.2	34	41	79	5.2
1945	93	79	126	77	59	9.7	14	12	10	53	47	68	9.7
Max.	93	202	146	157	60	32	41	47	14	53	47	79	10
Min.	8.4	27	67	37	18	9.7	6.5	3.1	.39	.32	.45	3.55	.32
Mean	61	80	107	95	43	21	22	13	7.7	14	19	38	5.44

## Uwharrie River near Eldorado, N. C.

## Mean Weekly Discharge in Million Gallons per day

Week Ending	1938	1939	1940	1941	1942	1943	1944	1945
Jan. 7		136	54	263	23	168	431	336
14		193	114	91	17	114	89	263
21		218	299	198	17	1000	814	160
28		227	67	99	19	589	87	121
Feb. 4		608	69	76	32	587	59	89
11		1430	1190	60	128	613	276	94
18		950	203	175	632	173	1120	975
25		285	306	76	127	112	410	950
Mar. 4		2070	193	70	494	90	371	360
11		501	185	441	911	1010	469	357
18		379	500	145	139	298	756	152
25		202	149	131	196	613	1060	150
Apr. 1		532	229	525	264	191	795	206
8		355	183	711	922	114	237	105
15		193	441	163	129	143	1050	85
22		259	211	89	59	814	516	448
29		183	188	355	41	165	302	409
May 6		255	111	87	34	93	151	137
13		118	85	70	29	84	136	90
20		96	60	44	181	63	96	185
27		74	127	31	698	318	70	74
June 3		90	419	59	57	67	50	57
10		71	68	44	183	315	56	35
17		103	90	27	258	141	30	28
24		43	71	23	56	84	54	18
July 1		67	32	40	77	117	56	16
8		124	32	134	59	749	125	85
15		61	39	97	54	872	1000	64
22		300	55	198	39	111	484	717
29		116	18	55	57	55	67	180
Aug. 5		105	18	23	30	34	109	84
12		300	12	11	23	33	69	34
19		775	704	7.1	286	22	26	26
26		253	40	6.5	146	11	16	38
Sept. 2		203	52	6.0	32	96	22	16
9		53	23	25	126	117	13	62
16		36	19	5.2	74	33	26	600
23		28	12	0.91	26	37	68	4310
30		28	15	2.56	91	23	440	99
Oct. 7	35	55	7.1	1.69	29	12	1100	135
14	15	23	4.72	.79	21	12	50	96
21	10	19	5.75	1.46	36	9.7	244	63
28	17	17	5.1	1.74	98	10	130	69
Nov. 4	15	24	47	1.36	51	12	56	56
11	19	27	15	.46	38	29	47	53
18	20	23	795	.59	35	19	46	56
25	390	59	63	2.95	118	15	55	76
Dec. 2	80	28	54	2.80	82	15	461	89
9	266	26	39	21	461	21	144	611
16	127	28	49	12	166	18	280	171
23	63	37	150	11	164	16	105	171
31	634	176	167	52	331	148	107	1400
Maximum		2070	1190	711	911	1010	1120	4310
Minimum		17	4.72	.46	17	9.7	13	16

Rocky River near Norwood, N. C.

Location.- Water-stage recorder, lat. 35°08'40", long. 80°10'45", at Hyatts Ford, 1,000 feet downstream from Lanes Creek and 6 miles southwest of Norwood, Stanly County. Datum of gage is 212.91 feet above mean sea level, datum of 1929 (levels by Corps of Engineers, U. S. Army).

Drainage area.- 1,370 square miles.

Records available.- October 1929 to date.

Average discharge.- 16 years, 828 million gallons per day.

Extremes.- 1929-45: Maximum discharge, 100,130 million gallons per day Sept. 18, 1945 (gage height, 46.37 feet); minimum, 12 million gallons per day Oct. 28, 1931, Nov. 13, 1933.

Remarks.- Slight diurnal fluctuation during low flow.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1929										3495	1350	1563	
1930	1266	1227	565	259	487	349	431	362	224	29.7	426	1066	558
1931	9302	240	480	1286	1182	172	452	1828	67.8	43.7	46.4	1783	1407
1932	2662	1040	1499	458	387	995	161	266	166	1725	853	2946	1096
1933	1092	1382	814	440	293	231	97.5	762	236	64.6	43.5	67.8	460
1934	98.2	344	736	769	628	1447	411	269	814	428	407	838	598
1935	1231	1088	2067	1430	561	188	492	93.7	1030	127	406	208	740
1936	4692	3105	2904	4585	118	214	300	486	349	2448	200	1511	1740
1937	3683	1796	912	2083	459	517	193	843	202	169	204	395	950
1938	696	207	658	966	148	925	1186	276	134	57.0	260	623	514
1939	913	3651	2138	548	290	296	953	1119	125	55.2	70.4	111	839
1940	401	1124	683	552	364	185	109	499	84.0	31.3	627	440	422
1941	554	346	893	968	97.5	225	2224	300	71.7	42.0	34.9	288	507
1942	167	1484	2783	360	1193	307	430	320	334	132	237	842	714
1943	2541	1118	2028	963	311	346	1786	324	114	48.4	64.6	174	820
1944	1227	2722	3572	2247	270	99.5	699	419	417	792	322	687	1118
1945	823	2040	736	530	247	65.2	687	428	5841	163	143	1643	1099
Max.	9302	3651	3572	4585	1193	1447	2224	1828	5841	3495	1350	2946	1740
Min.	98.2	207	480	259	97.5	65.2	97.5	93.7	67.8	29.7	34.9	67.8	422
Mean	1959	1432	1467	1153	440	410	663	537	638	579	335	893	849

Rocky River near Norwood, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1929										37600	7300	8660	
1930	7040	6160	3020	885	4390	1930	3180	4190	1520	44	2830	6270	7040
1931	4710	443	1680	6850	4680	659	1800	12900	169	174	76	11800	12900
1932	19400	5450	13600	1280	1860	8530	956	2200	1120	24900	3290	10300	24900
1933	4350	4770	4840	1820	1920	2570	297	4850	1830	242	71	262	4850
1934	398	3240	3460	2580	5530	7240	2770	1870	4570	4140	4520	7170	7240
1935	7490	5460	14800	5170	4880	2190	2980	301	7300	7560	2530	1140	14800
1936	18900	18300	13100	33300	260	1740	3860	2070	2340	23900	872	5830	33300
1937	9750	6230	2840	12500	2200	1980	518	4120	956	1190	969	2310	12500
1938	4630	520	3850	8140	481	3770	7620	1530	956	189	3110	5790	8140
1939	4830	13500	13200	2150	1180	1910	8790	8850	421	176	154	659	13500
1940	4190	4770	3740	3390	5940	1420	612	4990	453	41	6010	1840	6010
1941	2650	2160	4680	10300	193	1590	8530	2500	382	252	57	2350	10300
1942	641	11800	17200	1750	15900	1290	3480	3130	2400	840	2130	4640	17200
1943	17800	10200	12100	885	1940	1540	8010	1870	318	65	159	1350	17800
1944	8080	10200	23100	16300	630	355	3750	3470	3420	5810	3310	5200	23100
1945	2440	8200	3640	3600	995	122	5840	5840	70400	309	327	9040	70400
Max.	19400	18300	23100	33300	15900	8530	8790	12900	70400	37600	7300	11800	70400
Min.	398	443	1680	885	193	122	297	301	169	41	57	262	4850
Mean	7330	6960	8680	6930	3310	2430	3940	4040	6160	6320	2220	4980	17700

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1929										138	227	379	
1930	288	317	244	144	93	74	41	45	31	20	59	103	20
1931	262	189	162	251	186	54	49	133	25	12	22	72	12
1932	292	443	273	172	99	62	45	43	25	49	193	178	25
1933	393	408	296	146	61	48	36	44	26	17	18	30	17
1934	52	55	136	170	67	99	63	63	49	56	89	145	49
1935	291	192	371	299	138	49	54	45	57	63	67	110	45
1936	168	420	348	291	55	45	37	70	49	129	129	129	37
1937	788	553	435	348	168	125	70	61	48	57	92	98	48
1938	176	140	166	149	70	168	67	66	31	28	41	94	28
1939	240	636	345	214	109	52	64	125	40	28	45	50	28
1940	86	174	277	187	74	48	31	36	30	21	48	101	21
1941	214	162	240	183	39	36	145	57	19	16	27	35	16
1942	87	185	368	118	68	78	62	59	52	45	80	159	45
1943	287	233	220	269	118	91	122	53	52	39	48	42	39
1944	176	163	522	459	105	39	67	70	43	110	110	209	39
1945	270	226	267	136	101	41	44	63	54	114	105	140	41
Max.	788	636	522	459	186	168	145	133	57	138	227	379	49
Min.	52	55	136	118	39	36	31	36	19	12	18	30	12
Mean	255	281	292	221	97	69	62	65	39	55	82	122	32

Rocky River near Norwood, N. C.

Mean Weekly Discharge in Million Gallons per day

Week Ending	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
Jan. 7		497	1060	3000	795	98	2360	8660	5700	1300
14		425	1660	7300	1830	171	1830	4790	1470	1110
21		3110	879	549	814	81	357	6300	3480	338
28		1110	415	422	1180	61	782	827	3400	252
Feb. 4		2370	247	1040	508	224	268	2140	4140	220
11		1910	205	599	1180	114	218	3600	2030	189
18		601	286	1230	1670	120	2510	6090	930	165
25		382	253	1690	2110	105	553	904	2030	225
Mar. 4		305	242	445	498	1150	1220	489	1050	225
11		1030	542	4740	551	1030	602	1360	724	1180
18		347	209	523	646	172	2780	3600	1010	797
25		582	582	475	1840	384	730	1740	969	485
Apr. 1		423	1410	891	371	1490	5310	6140	646	391
8		348	3110	382	499	334	2750	14900	1720	1420
15		258	617	615	704	1000	1270	3530	1480	995
22		194	443	242	410	1450	859	563	645	337
29		157	524	508	207	349	605	379	4810	258
May 6		138	853	711	391	147	275	220	756	143
13		419	1820	472	558	85	430	140	334	90
20		1410	278	146	103	403	483	98	769	105
27		147	2120	186	66	704	1280	73	198	175
June 3		96	419	269	279	2110	157	56	291	769
10		112	209	76	111	4810	545	160	698	1240
17		580	145	2350	583	461	81	130	338	678
24		524	101	1230	68	161	68	357	440	287
July 1		256	74	616	165	139	57	260	698	1200
8		107	612	175	78	105	170	272	176	160
15		132	228	91	102	459	519	55	245	81
22		1140	459	128	158	225	885	109	188	762
29		490	646	94	65	859	550	129	135	4040
Aug. 5		232	406	636	678	262	114	1160	148	704
12		891	2550	286	136	147	65	1210	415	451
19		331	1030	211	1850	264	79	240	480	102
26		134	4030	200	628	527	167	158	724	77
Sept. 2		52	160	47	122	214	62	161	2200	123
9		652	105	205	439	808	1760	527	372	326
16		160	60	30	444	1780	2110	554	156	101
23		90	47	258	76	730	217	192	68	52
30		43	47	208	34	98	298	202	79	42
Oct. 7	13000	29	37	288	122	224	95	1090	85	90
14	267	32	71	123	30	1370	79	6520	87	39
21	161	29	43	6980	72	174	261	2860	150	36
28	1970	26	27	203	48	96	70	261	304	67
Nov. 4	1240	105	41	937	36	280	106	160	190	47
11	1110	289	36	853	44	138	616	145	97	73
18	975	1140	43	291	43	143	833	356	360	53
25	943	228	56	665	46	110	142	152	124	853
Dec. 2	2090	114	60	1070	44	2670	146	153	285	141
9	2390	1610	3470	225	45	494	118	1280	149	565
16	497	276	2130	4640	46	188	429	2110	122	275
23	1790	539	1470	2130	105	685	201	2530	118	138
30	1560	1990	698	5210	81	678	112	652	1140	1540
Maximum		3110	4030	7300	2110	4810	5310	14900	5700	4040
Minimum		26	27	47	30	61	57	55	68	36

Rocky River near Norwood, N. C.

Mean Weekly Discharge in Million Gallons per day (cont.)

Week Ending	1939	1940	1941	1942	1943	1944	1945
Jan. 7	423	110	982	207	537	1690	1030
14	1050	364	304	126	507	434	1020
21	930	1050	691	110	5190	2910	975
28	691	180	339	101	3140	307	495
Feb. 4	2020	187	264	446	2340	193	262
11	4150	2040	191	995	3090	2090	417
18	3950	646	717	3180	499	4470	3590
25	1100	1560	251	859	315	1980	3430
Mar. 4	8980	672	260	3440	236	2750	1640
11	1610	533	1780	5650	3570	1890	975
18	1290	1260	568	652	103	2700	382
25	479	389	410	2000	3660	8140	356
Apr. 1	1600	445	1170	1320	652	2790	546
8	698	443	2710	357	3380	749	231
15	349	988	541	730	580	4290	164
22	685	526	241	216	2600	1560	537
29	340	300	479	138	498	2700	1250
May 6	244	189	167	105	231	506	253
13	349	132	114	84	227	349	153
20	156	96	80	287	281	168	499
27	479	171	57	4660	550	192	151
June 3	310	1340	81	238	176	134	120
10	329	151	44	484	265	114	83
17	548	217	112	513	319	157	72
24	99	820	198	103	404	76	52
July 1	155	63	600	164	800	54	68
8	1270	84	2440	216	4520	328	123
15	396	67	4110	234	2370	730	214
22	201	246	2690	317	450	1630	1840
29	372	61	513	1070	176	224	775
Aug. 5	351	50	641	116	120	568	1200
12	356	143	210	80	330	1200	215
19	2730	1850	81	516	469	104	142
26	1220	130	215	704	67	101	334
Sept. 2	505	162	274	72	529	76	879
9	185	121	138	724	103	54	1030
16	75	54	42	179	114	182	3730
23	59	39	30	61	141	930	20000
30	132	35	76	448	87	598	317
Oct. 7	92	30	47	72	49	1330	211
14	52	32	23	54	43	273	187
21	42	29	19	96	50	1320	134
28	40	33	26	289	47	513	137
Nov. 4	56	180	94	139	55	147	117
11	59	69	30	110	89	119	112
18	64	2110	30	141	61	119	119
25	99	189	35	516	57	129	179
Dec. 2	59	202	41	295	57	1320	183
9	57	130	238	1140	70	461	1770
16	59	208	85	505	67	1580	730
23	75	711	76	573	52	313	579
31	251	743	756	1220	493	261	3620
Maximum	8980	2110	4110	5650	5190	8140	20000
Minimum	40	29	19	54	43	54	52

Brown Creek near Polkton, N. C.

Location.- Water-stage recorder and concrete control, lat. 35°02'15", long. 80°08'45", at Medley's mill, just downstream from bridge on State Highway 742, 3½ miles downstream from Little Brown Creek, and 4 miles northeast of Polkton, Anson County.

Drainage area.- 110 square miles.

Records available.- May 1935 to September 1936; October 1937 to date.

Extremes.- 1935-45: Maximum discharge, 11,200 million gallons per day Sept. 18, 1945 (gage height, 17.68 feet, from high-water mark); no flow during several days of most years.

Flood of August 1908 reached a stage of 16.4 feet, from floodcrest mark witnessed by land owner.

Remarks.- Records good except those below 3.23 million gallons per day, which are fair, and those above 1,940 million gallons per day, which are poor.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1935					24.6	24.2	7.17	3.96	89.8	5.84	36.2	16.9	
1936	277	217	243	298	3.38	10.3	2.64	5.56	6.10				
1937										.429	2.73	15.7	
1938	46.0	6.38	16.7	102	3.65	25.6	114	11.2	5.47	.028	2.78	12.3	29.1
1939	50.5	304	185	19.4	4.97	1.01	151	43.0	5.52	.85	.024	2.03	62.7
1940	56.3	93.0	47.9	38.0	4.86	2.52	1.27	27.9	2.00	1.52	26.5	21.0	26.7
1941	33.9	20.8	69.1	143	2.58	12.7	224	24.3	1.56	.234	.097	10.1	45.5
1942	7.04	93.0	300	40.2	101	17.4	2.91	1.46	10.6	1.79	13.0	35.5	52.1
1943	165	76.2	155	59.3	7.04	4.28	95.0	3.17	2.99	.023	.001	3.82	47.9
1944	71.1	238	332	180	8.53	.704	15.4	8.01	2.60	27.2	7.17	21.1	75.6
1945	54.9	13.4	41.7	7.56	5.18	.621	12.5	25.1	599	4.08	1.85	157	85.9
Max.	277	304	332	298	101	25.6	224	43.0	599	27.2	36.2	157	85.9
Min.	7.04	6.38	16.7	7.56	2.58	.621	1.27	1.46	1.56	.023	.001	2.03	26.7
Mean	84.6	118	154	98.6	16.6	9.93	62.6	15.4	72.6	4.20	9.04	29.5	53.2

## Brown Creek near Polkton, N. C.

## Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1935					194	355	57	28	355	27	191	101	
1936	1030	956	969	1580	9.7	52	17	48	52				
1937										1.16	14	101	
1938	238	11	70	460	36	86	866	114	47	.10	34	109	866
1939	193	1110	917	67	36	6.5	1250	166	27	3.23	.10	12	1250
1940	258	258	149	142	16	17	17	291	16	1.94	258	81	291
1941	112	94	249	840	23	133	1150	237	6.5	1.42	.29	52	1150
1942	23	258	859	204	1090	211	17	9.7	129	4.52	108	152	1090
1943	635	373	782	323	24	23	567	27	28	.17	.04	36	782
1944	342	607	2090	505	43	7.8	87	83	34	239	151	74	2090
1945	149	332	178	34	44	3.55	97	280	7820	11	2.39	630	7820
Max.	1030	1110	2090	1580	1090	355	1250	291	7820	239	258	630	7820
Min.	23	11	70	34	9.7	3.55	17	9.7	6.5	.10	.04	12	291
Mean	331	444	696	462	152	89.5	412	128	851	29.0	75.9	135	1917

## Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1935					3.23	.97	.97	.97	4.78	2.13	3.88	4.91	
1936	9.0	25	27	11	.97	.97	.90	.90	.90				
1937										.22	.26	1.23	
1938	7.1	3.55	4.20	6.14	.71	1.03	.52	.34	.03	.00	.00	.39	.00
1939	4.52	66	14	7.1	1.10	.10	.30	3.04	.14	.03	.00	.00	.00
1940	1.94	16	14	7.8	1.36	.00	.00	.00	.39	1.22	16	2.45	.00
1941	9.0	6.33	12	7.8	.13	.16	2.71	.78	.23	.00	.00	.00	.00
1942	2.65	12	35	2.58	.65	.43	.23	.19	.32	.65	.45	7.8	.19
1943	14	9.7	9.7	12	1.55	.45	.65	.06	.13	.00	.00	.00	.00
1944	5.88	4.97	32	26	.63	.00	.00	.14	.00	.07	1.12	6.4	.00
1945	14	10	11	1.24	.31	.00	.05	.31	.45	1.49	1.49	1.74	.00
Max.	14	66	35	26	3.23	1.03	2.71	3.04	4.78	2.13	16	7.8	.19
Min.	1.94	3.55	4.20	1.24	.13	.00	.00	.00	.00	.00	.00	.00	.00
Mean	7.57	17	18	9.1	1.06	.411	.633	.673	.737	.581	2.32	2.49	.024

## Brown Creek near Polkton, N. C.

## Mean Weekly Discharge in Million Gallons per day

Week Ending	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945
Jan. 7		486		52	12	2.97	56	13	48	78	30
14		313		119	41	43	16	6.2	33	32	68
21		341		17	76	106	49	3.36	264	189	76
28		75		12	42	89	22	3.29	180	14	63
Feb. 4		169		9	129	28	13	19	258	7.1	13
11		278		6.5	207	140	9	78	209	142	46
18		370		4.59	376	102	47	92	28	439	209
25		70		5.43	146	96	15	114	15	204	209
Mar. 4		36		5.94	879	70	15	370	10	280	149
11		145		23	242	37	145	477	321	87	39
18		275		28	74	77	55	89	38	233	16
25		125		15	18	23	21	359	269	885	17
Apr. 1		532		7.1	24	32	101	116	56	244	34
8		859		114	18	22	461	25	17	85	8.4
15		344		247	12	54	64	118	34	262	3.68
22		32		31	32	61	14	16	163	121	1.80
29		23		44	12	17	47	5.94	35	242	16
May 6		8.4		3.88	10	5.68	6.5	1.68	8.4	34	3.17
13	9.7	4.65		1.36	3.10	3.10	2.13	.84	8.4	11	1.11
20	21	2.13		.97	8.4	1.94	.78	2.20	7.1	3.81	16
27	68	1.10		9.0	8.4	7.8	.28	433	6.3	1.55	3.17
June 3	14	.97		9.0	1.55	8.4	3.94	15	3.04	1.80	.37
10	89	7.8		46	2.90	4.0	.24	45	8.4	1.54	1.72
17	2.33	13		41	.37	.71	2.97	25	1.67	.14	.71
24	1.10	12		8.4	.10	1.81	11	2.00	3.18	.06	.03
July 1	.97	11		7.8	1.03	.02	41	.79	12	.006	.09
8	3.29	1.16		9.0	137	.00	129	2.58	163	1.38	.61
15	11	.90		6.5	32	.00	607	.57	238	19	1.39
22	15	4.39		47	362	5.36	244	3.62	12	34	7.8
29	1.68	2.45		433	137	.26	8.4	5.36	1.58	12	43
Aug. 5	1.10	9.7		48	11	.07	22	.65	.52	28	3.88
12	3.29	14		7.8	30	.05	72	1.15	4.26	7.8	2.24
19	1.16	2.65		3.68	59	114	1.36	2.13	6.40	1.20	25
26	5.68	1.10		.53	76	3.29	9.7	2.52	.17	1.06	80
Sept. 2	15	.90		.51	21	10	3.62	.45	3.17	.20	3.26
9	92	9.0		19	12	3.04	3.49	2.58	3.04	.02	26
16	114	3.23		3.29	1.62	.90	.78	3.36	.41	7.8	333
23	57	1.55		.54	.36	.58	.33	.51	7.8	2.18	2200
30	113	12		.13	9.0	.45	1.74	39	1.14	1.05	15
Oct. 7	11		.43	.10	2.20	1.29	.62	1.29	.097	.17	7.11
14	3.88		.32	.00	1.10	1.49	.12	.83	.00	3.10	4.85
21	2.91		.50	.00	.37	1.68	.04	1.29	.00	60	2.45
28	2.33		.48	.01	.08	1.62	.06	3.09	.00	56	2.78
Nov. 4	9.0		.37	.02	.06	2.65	.34	2.20	.00	2.52	2.03
11	52		.30	.00	.00	2.00	.14	.62	.00	1.23	1.83
18	85		7.8	.00	.00	96	.10	1.66	.00	1.08	1.77
25	9.0		1.42	11	.06	9.0	.05	25	.00	1.72	1.96
Dec. 2	7.8		3.36	1.03	.01	6.07	.00	32	.00	45	1.83
9	5.43		2.13	5.43	.01	4.72	2.78	36	.00	21	79
16	41		1.55	4.59	.01	10	1.49	27	.00	32	43
23	17		1.87	1.36	.05	35	1.55	37	.00	11	105
31	7.1		55	38	7.8	36	34	45	15	9.0	410
Maximum				433	879	140	607	477	321	885	2200
Minimum				.00	.00	.00	.00	.45	.00	.00	.03

Drowning Creek near Hoffman, N. C.

Location.- Water-stage recorder, lat. 35°03'35", long. 79°29'35", at bridge on U. S. Highway 1, three-quarters of a mile downstream from Deep Creek, 1 mile upstream from Seaboard Airline Railroad bridge, and 4 miles northeast of Hoffman, Richmond County.

Drainage area.- 178 square miles.

Records available.- October 1939 to date.

Extremes.- 1939-45: Maximum discharge, 7,400 million gallons per day Sept. 18, 1945 (gage height, 10.29 feet); minimum, 18 million gallons per day Aug. 4, 1940 (gage height, 1.32 feet).

Remarks.- Records good.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1939										*70.4	95.0	117	
1940	156	194	169	140	82.7	62.3	37.1	74.9	30.2	31.3	138	118	102
1941	127	101	155	238	62.3	66.5	211	95.0	57.4	49.0	60.3	121	112
1942	97.5	143	259	156	132	81.4	82.0	139	139	114	123	167	136
1943	218	196	225	172	122	59.4	235	93.7	99.5	64.1	85.9	123	141
1944	222	302	391	377	200	103	403	225	142	176	144	185	239
1945	172	228	194	138	110	109	189	226	602	252	202	294	226
Max.	222	302	391	377	200	109	403	226	602	252	202	294	239
Min.	97.5	101	155	138	62.3	59.4	37.1	74.9	30.2	31.3	60.3	117	102
Mean	165	194	232	204	118	80	193	142	178	108	121	161	159

\*October 24-31, 1939

Drowning Creek near Hoffman, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1939										*83	134	238	
1940	258	270	258	229	139	139	92	226	46	50	430	212	430
1941	178	164	307	549	121	196	446	270	143	116	71	258	549
1942	143	248	399	346	281	183	248	346	333	229	307	208	399
1943	401	342	419	368	233	91	581	324	304	86	160	382	581
1944	467	589	937	814	401	156	2840	497	333	435	304	324	2840
1945	229	408	292	244	166	352	484	570	5510	365	272	506	5510
Max.	467	589	937	814	401	352	2840	570	5510	435	430	506	5510
Min.	143	164	258	229	121	91	92	226	46	50	71	208	399
Mean	279	337	435	425	224	186	782	372	1110	195	240	304	1720

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1939										*67	80	83	
1940	92	123	119	92	57	30	21	19	21	25	46	78	19
1941	96	85	89	107	30	28	44	41	33	36	56	59	28
1942	76	83	157	94	57	35	30	36	57	68	89	139	30
1943	132	137	134	121	67	41	68	51	49	55	70	75	41
1944	128	119	220	233	121	70	66	116	94	99	123	137	66
1945	130	125	137	103	76	57	65	94	97	195	173	173	57
Max.	132	137	220	233	121	70	68	116	97	195	173	173	66
Min.	76	83	89	92	30	28	21	19	21	25	46	59	19
Mean	109	112	143	125	68	44	49	60	58	78	91	106	40

\*October 24-31, 1939

Drowning Creek near Hoffman, N. C.

Mean Weekly Discharge in Million Gallons per day

Week Ending	1939	1940	1941	1942	1943	1944	1945
Jan. 7		114	147	123	195	251	167
14		183	109	92	171	192	188
21		216	132	90	215	319	190
28		130	121	82	261	165	158
Feb. 4		125	106	101	252	127	129
11		219	97	133	260	217	166
18		200	120	126	185	444	241
25		218	89	182	152	306	304
Mar. 4		188	100	196	139	337	289
11		156	189	320	295	304	211
18		199	155	240	191	355	170
25		137	106	269	251	601	163
Apr. 1		158	221	229	203	356	176
8		117	370	144	132	293	138
15		174	240	240	165	482	116
22		157	134	140	208	407	132
29		114	216	102	191	333	168
May 6		89	107	92	121	237	121
13		79	76	65	141	287	94
20		69	55	220	144	144	142
27		90	39	160	103	163	87
June 3		92	39	91	74	146	97
10		79	61	73	65	98	101
17		77	53	138	65	101	72
24		39	46	57	54	113	167
July 1		34	121	61	68	92	109
8		40	127	78	284	82	81
15		52	273	67	433	554	98
22		40	339	40	189	762	355
29		23	156	148	93	258	189
Aug. 5		21	74	53	64	379	228
12		42	101	72	80	324	170
19		187	45	203	163	162	237
26		63	160	241	60	136	357
Sept. 2		37	82	114	94	146	141
9		32	84	187	68	105	178
16		29	45	163	62	194	253
23		25	37	67	153	160	1740
30		32	63	132	116	113	373
Oct. 7		26	52	116	61	188	283
14		28	41	78	57	126	280
21		33	38	99	61	148	213
28		34	42	154	71	260	249
Nov. 4	86	65	79	110	74	130	207
11	86	52	57	93	110	127	225
18	90	257	59	99	88	131	205
25	111	150	61	114	76	144	186
Dec. 2	90	113	63	209	77	232	189
9	86	90	124	182	94	213	320
16	86	90	99	163	82	200	258
23	95	128	82	174	85	146	261
31	198	159	187	159	231	149	358
Maximum		257	370	320	433	762	1740
Minimum		21	37	40	54	82	72

Lumber River at Boardman, N. C.

Location.- Water-stage recorder, lat. 34°26'40", long. 78°56'35", at State highway bridge, 1 mile downstream from Atlantic Coast Line Railroad bridge at Boardman, Columbus County, and 1½ miles downstream from Big Swamp. Datum of gage is 72.05 feet above mean sea level, datum of 1929 (levels by Corps of Engineers, U. S. Army).

Drainage area.- 1,220 square miles.

Records available.- September 1929 to date.

Average discharge.- 16 years, 769 million gallons per day.

Extremes.- 1929-45: Maximum discharge, 8,660 million gallons per day Sept. 24, 1945 (gage height, 10.64 feet); minimum, 85 million gallons per day (estimated) Oct. 12, 1930.

Maximum stage known, 11.8 feet sometime in August 1928, from flood-crest reference mark as witnessed by local resident (discharge, 16,200 million gallons per day, estimated).

Remarks.- Records good except those for periods of no gage-height record, which are fair.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1929										2100	1376	2080	
1930	1802	1705	1027	678	426	453	295	189	156	152	488	950	691
1931	1344	691	698	891	685	353	424	1227	571	146	170	603	652
1932	898	808	904	568	541	524	182	281	134	380	1525	1996	728
1933	1744	2558	1234	762	426	189	202	311	320	110	136	153	667
1934	169	277	395	533	247	527	507	359	659	320	236	731	414
1935	1047	948	930	1329	436	230	228	153	2056	391	519	731	745
1936	2025	2475	2051	3674	603	390	326	422	307	676	596	1199	1222
1937	1528	2782	1502	1755	1145	325	216	455	512	235	375	457	928
1938	603	437	404	1592	358	1058	934	1078	944	663	470	698	770
1939	897	2095	3342	776	494	314	518	844	480	302	271	293	880
1940	638	923	868	761	364	276	152	265	123	91	205	269	410
1941	323	307	720	897	318	139	1378	625	230	141	173	375	472
1942	663	656	1906	1014	456	353	357	580	1120	368	329	583	699
1943	985	1169	1214	1313	621	452	1814	674	261	222	244	307	772
1944	1293	1979	2670	2067	1036	388	820	744	362	385	378	631	1061
1945	650	789	822	364	377	464	791	1410	3092	1109	692	1492	1005
Max.	2025	2782	3342	3674	1145	1058	1814	1410	3092	1109	1525	2080	1222
Min.	169	277	395	364	247	139	152	153	123	91	136	153	410
Mean	1038	1287	1293	1186	533	402	572	601	708	458	481	797	757

Lumber River at Boardman, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1929										4800	1620	2710	
1930	2970	2340	1200	769	665	698	402	298	210	220	578	1460	2970
1931	1710	879	769	1200	917	879	879	2010	1810	171	220	1070	2010
1932	1390	917	1320	638	1010	917	301	386	193	963	1910	2840	2840
1933	2220	3380	2110	1260	665	258	301	360	563	136	154	163	3380
1934	203	332	530	562	411	956	801	514	1370	646	384	1090	1370
1935	1240	1140	1190	1810	672	424	439	320	4570	698	633	1010	4570
1936	3040	3180	2910	6980	1050	594	561	724	411	911	724	2120	6980
1937	2450	3820	2220	3350	3200	407	317	795	756	304	539	617	3820
1938	665	520	504	3200	756	1450	3820	3350	2120	1710	769	846	3820
1939	1070	3820	7750	930	846	406	1340	1180	808	432	330	474	7750
1940	846	1180	1020	1020	775	509	214	491	164	108	406	380	1180
1941	380	338	956	1090	698	280	2880	1200	509	200	210	808	2880
1942	917	963	2690	1810	601	477	509	1270	1810	433	419	698	2690
1943	1410	1560	2210	2330	1100	537	2950	1300	393	461	313	623	2950
1944	1720	3360	3500	2580	1630	572	2180	1190	537	641	622	775	3500
1945	795	1100	1130	537	602	1810	1380	2200	8660	2420	775	2420	8660
Max.	3040	3820	7750	6980	3200	1810	3820	3350	8660	4800	1910	2840	8660
Min.	203	332	504	537	411	258	214	298	164	108	154	163	1180
Mean	1440	1800	2000	1880	975	698	1200	1100	1560	897	624	1180	3840

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1929										879	1070	1540	
1930	1130	1130	769	543	298	242	200	134	109	85	231	518	85
1931	917	556	621	672	518	171	152	231	171	125	143	220	125
1932	645	736	610	399	348	323	114	150	110	158	840	1070	110
1933	1390	1710	801	506	229	110	102	229	141	90	111	145	90
1934	154	214	271	439	173	225	214	258	332	193	183	454	154
1935	840	730	840	698	320	103	103	97	424	250	340	439	97
1936	879	1420	1210	1100	327	250	203	275	238	368	472	575	203
1937	1140	2120	1140	1050	394	278	174	317	205	194	227	368	174
1938	520	349	336	388	173	452	239	401	324	380	380	567	173
1939	769	1120	975	627	293	212	212	627	235	190	201	247	190
1940	489	652	711	604	225	130	101	94	87	87	94	225	87
1941	280	280	280	646	109	101	326	249	124	111	161	170	101
1942	477	477	1050	461	277	231	220	180	461	326	289	351	180
1943	698	672	646	917	466	280	590	307	196	165	189	231	165
1944	646	788	1870	1720	491	281	297	326	275	291	314	483	275
1945	483	577	556	267	239	186	244	833	879	622	599	577	186
Max.	1390	2120	1870	1720	518	452	590	833	879	879	1070	1540	275
Min.	154	214	271	267	109	101	101	94	87	85	94	145	85
Mean	716	846	793	690	305	223	218	294	269	266	344	481	150

## Lumber River at Boardman, N. C.

## Mean Weekly Discharge in Million Gallons per day

Week Ending	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
Jan. 7		1350	1340	698	2030	165	872	1200	1230	652
14		1250	1190	820	1600	172	1060	2490	1470	604
21		1590	1620	1180	1540	163	1180	2660	1640	637
28		2710	1390	924	1780	165	1080	1880	1470	555
Feb. 4		2410	904	801	1810	211	1020	1580	2800	517
11		1980	672	795	2280	251	808	2490	3400	491
18		1600	606	756	2710	280	814	3090	2640	439
25		1400	717	814	3110	323	1120	2660	2310	375
Mar. 4		1130	678	859	2230	288	1070	1830	2210	349
11		1070	698	808	1470	286	924	1350	1820	345
18		1180	724	1140	1170	400	930	2190	1340	386
25		982	652	1000	969	471	853	2380	1230	482
Apr. 1		801	756	678	827	505	1030	2680	1160	432
8		736	904	576	646	553	1580	4000	1150	904
15		724	1120	576	525	541	1650	6120	1940	2680
22		587	879	615	943	527	1290	3480	1550	1960
29		665	717	526	950	523	898	1530	2250	1100
May 6		455	659	431	629	336	608	969	2750	652
13		318	575	377	512	196	419	698	1300	339
20		397	626	415	432	207	332	538	749	224
27		571	788	698	280	264	437	423	519	235
June 3		344	866	885	242	271	405	331	392	452
10		258	478	471	239	499	295	261	309	943
17		452	282	420	183	788	251	344	364	1120
24		665	228	606	169	601	166	528	306	1250
July 1		497	177	442	134	282	117	488	297	1160
8		294	222	260	127	320	103	459	214	762
15		221	678	182	151	717	156	265	180	378
22		309	563	132	247	560	382	231	219	333
29		360	304	129	281	459	298	303	220	1450
Aug. 5		253	268	270	239	486	193	315	368	3050
12		178	568	344	301	330	134	430	414	1470
19		167	1470	306	344	368	101	497	344	579
26		191	1770	253	351	318	145	527	632	426
Sept. 2		158	1930	171	271	348	296	286	517	419
9		118	1070	118	307	342	1150	341	749	415
16		158	480	117	536	400	3760	299	624	743
23		171	233	134	307	1120	2640	333	411	924
30		185	177	168	160	866	1120	267	230	1860
Oct. 7	2440	122	155	176	126	494	592	479	200	1210
14	3840	98	132	187	111	343	440	561	220	665
21	1470	198	145	336	95	278	308	736	236	467
28	1080	174	154	587	103	216	266	885	259	402
Nov. 4	1070	234	146	891	114	190	335	672	280	434
11	1290	445	159	1360	118	227	453	495	243	406
18	1550	555	162	1740	142	236	545	548	368	450
25	1390	557	174	1780	152	236	622	704	497	460
Dec. 2	1540	532	214	1560	150	343	534	634	499	691
9	2390	698	313	1360	152	704	453	593	446	762
16	2530	814	678	1430	154	950	635	762	427	711
23	1830	1050	885	2640	156	646	982	1770	383	658
31	1710	1310	640	2600	151	704	898	1770	562	630
Maximum		2710	1930	2640	3110	1120	3760	6120	3400	3050
Minimum		98	132	117	95	163	101	231	180	224

Lumber River at Boardman, N. C.

Mean Weekly Discharge in Million Gallons per day

Week Ending	1939	1940	1941	1942	1943	1944	1945		
Jan. 7	898	522	345	872	711	846	498		
14	917	517	348	775	788	1180	625		
21	814	644	301	576	1040	1560	678		
28	911	801	304	502	1250	1600	769		
Feb. 4	1140	749	291	481	1350	1080	659		
11	1620	685	302	543	1470	917	691		
18	2140	995	304	665	1220	2190	762		
25	2570	1150	326	756	911	3220	879		
Mar. 4	4970	1030	290	1070	685	2290	1100		
11	5890	911	566	2020	937	2210	988		
18	2780	833	950	2480	1210	2740	769		
25	1570	853	866	1740	1270	2890	717		
Apr. 1	1040	762	769	1770	1900	3160	608		
8	853	717	975	1490	1711	2380	452		
15	736	652	1030	1020	1030	1960	315		
22	685	756	924	833	1030	2040	275		
29	801	917	678	672	1370	1870	379		
May 6	756	685	644	468	969	1470	434		
13	567	386	425	386	563	1330	326		
20	459	279	225	349	504	1100	311		
27	360	238	147	556	550	629	366		
June 3	298	264	110	513	562	544	459		
10	355	439	110	277	362	464	235		
17	331	317	129	386	451	332	212		
24	335	186	145	429	467	317	203		
July 1	232	140	213	276	512	360	1370		
8	342	162	482	426	1300	315	736		
15	358	191	795	454	2330	561	274		
22	251	152	2160	335	2270	879	775		
29	924	120	2190	245	1690	1560	1230		
Aug. 5	1200	103	1120	278	1230	1010	969		
12	930	135	724	196	762	1030	1810		
19	820	308	439	338	529	814	1180		
26	665	450	443	943	584	449	1410		
Sept. 2	711	251	610	1230	313	355	1510		
9	743	147	326	1070	253	337	1170		
16	516	132	245	1490	245	295	1120		
23	322	112	149	1320	229	386	5410		
30	270	92	133	578	315	434	5190		
Oct. 7	412	99	185	407	373	368	1720		
14	388	87	154	380	196	331	1200		
21	247	87	119	342	171	317	995		
28	209	90	112	337	167	442	724		
Nov. 4	203	98	161	401	187	566	645		
11	240	141	193	363	208	354	730		
18	262	157	169	298	286	326	736		
25	309	254	161	296	276	340	685		
Dec. 2	315	373	166	321	229	433	606		
9	264	281	211	488	232	624	853		
16	247	235	332	601	256	756	1490		
23	249	235	351	640	274	665	1750		
31	395	293	627	659	464	525	2050		
Maximum	5890	1150	2190	2480	2330	3220	5410		
Minimum	203	87	110	196	167	295	203		

Waccamaw River at Freeland, N. C.

Location.- Water-stage recorder, lat. 34°05'45", long. 78°32'50", 150 feet downstream from bridge on State Highway 130, 1 mile southwest of Freeland, Brunswick County, and 7 miles downstream from mouth of White Marsh. Datum of gage is 15.52 feet above mean sea level, datum of 1929.

Drainage area.- 667 square miles.

Records available.- July 1939 to date.

Extremes.- 1939-45: Maximum discharge, 3,600 million gallons per day Sept. 23, 1945 (gage height, 15.49 feet); minimum observed, 0.3 million gallon per day Nov. 10, 11, 1940.

Remarks.- Discharge for periods of changing stage computed by using rate of change in stage as a factor.

Mean Monthly Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Mean
1939								342	229	50.6	52.3	39.8	
1940	109	747	457	277	55.0	105	17.5	125	33.9	.74	.45	3.82	158
1941	15.2	28.8	505	401	46.3	28.8	385	304	47.3	2.86	.56	34.9	151
1942	200	328	1468	475	69.1	30.0	26.1	69.8	52.2	20.3	13.8	26.7	232
1943	104	422	363	616	272	76.2	498	641	618	214	31.3	44.1	324
1944	639	1132	1841	903	179	29.1	78.8	980	97.5	78.2	70.4	161	515
1945	256	541	350	90.4	54.2	81.4	1115	979	1910	359	101	722	547
Max.	639	1132	1841	903	272	105	1115	980	1910	359	101	722	547
Min.	15.2	28.8	350	90.4	46.3	28.8	17.5	69.8	33.9	.74	.45	3.82	151
Mean	221	533	831	460	113	58.4	353	492	427	104	39	147	321

Waccamaw River at Freeland, N. C.

Maximum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Max.
1939								568	568	104	65	61	
1940	198	1230	988	434	143	226	28	257	164	2.33	.71	12	1230
1941	18	36	1200	678	133	258	782	620	123	8.4	8.4	154	1200
1942	292	691	2000	1140	111	68	65	256	92	36	26	40	2000
1943	431	492	795	1000	704	244	859	1100	1300	801	56	179	1300
1944	891	2000	2400	1960	293	67	237	1840	149	133	101	214	2400
1945	378	685	474	183	92	511	2330	1770	3510	1270	123	1810	3510
Max.	891	2000	2400	1960	704	511	2330	1840	3510	1270	123	1810	3510
Min.	18	36	474	183	92	67	28	256	92	2.33	.71	12	1200
Mean	368	856	1310	899	246	229	717	916	844	336	54.3	353	1940

Minimum Daily Discharge in Million Gallons per day

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly Min.
1939								227	61	20	39	29	
1940	61	140	242	154	25	32	12	12	2.52	.39	.32	.45	.32
1941	11	17	37	149	5.8	1.81	155	108	9.7	.45	.45	.84	.45
1942	132	163	736	115	45	10	3.29	3.17	15	6.3	7.8	7.8	3.17
1943	31	214	182	322	112	12	13	187	149	57	16	15	12
1944	193	348	891	313	72	14	7.8	149	70	45	61	86	7.8
1945	164	326	200	39	26	14	517	566	775	103	90	92	14
Max.	193	348	891	322	112	32	517	566	775	103	90	92	14
Min.	11	17	37	39	5.8	1.81	3.29	3.17	2.52	.39	.32	.45	.32
Mean	99	201	381	182	48	14	118	179	155	33	31	33	6.3

## Waccamaw River at Freeland, N. C.

## Mean Weekly Discharge in Million Gallons per day

Week Ending	1939	1940	1941	1942	1943	1944	1945
Jan. 7		67	14	197	37	307	174
14		78	15	269	53	610	210
21		103	16	203	78	808	233
28		153	16	151	152	833	355
Feb. 4		172	17	164	406	557	356
11		189	25	207	481	401	556
18		982	34	327	474	1040	665
25		1200	34	413	370	1960	539
Mar. 4		995	36	736	206	1510	474
11		592	151	1430	229	1720	412
18		384	872	1940	281	2290	343
25		305	840	1540	428	1810	327
Apr. 1		286	393	1290	704	1890	231
8		402	408	859	898	1630	135
15		290	646	538	558	885	86
22		227	385	299	364	639	52
29		189	210	160	584	390	74
May 6		119	111	98	580	253	86
13		64	61	63	244	217	59
20		38	34	6.7	140	198	46
27		27	16	67	161	125	45
June 3		45	6.1	44	272	68	26
10		196	3.72	16	102	36	19
17		140	3.40	22	72	33	16
24		54	3.04	32	45	17	14
July 1		36	156	54	19	15	365
8		23	244	52	63	9.7	616
15		18	222	37	29	9.9	827
22		15	543	12	795	90	1580
29		14	581	4.78	808	175	1600
Aug. 5	528	14	222	3.84	717	808	782
12	276	31	565	3.53	301	1810	628
19	317	146	304	12	717	1160	801
26	284	230	189	210	911	477	1310
Sept. 2	428	180	172	98	698	193	1360
9	481	68	84	72	640	125	1190
16	176	22	51	82	389	92	1870
23	110	8.2	24	36	297	78	2470
30	86	3.26	11	17	1080	81	2360
Oct. 7	92	1.56	6.7	13	572	64	840
14	61	.59	3.69	8.1	190	56	377
21	37	.47	1.55	23	94	56	194
28	26	.46	.58	34	66	121	130
Nov. 4	37	.43	.46	27	54	103	107
11	64	.37	.51	17	41	71	116
18	53	.59	.45	13	31	68	101
25	48	.39	.61	9.2	21	65	91
Dec. 2	45	.47	.81	8.4	17	72	92
9	41	1.49	1.45	16	18	98	216
16	34	1.87	2.95	26	17	156	444
23	30	2.62	3.58	32	35	209	762
31	50	9.4	128	36	105	196	1540
Maximum		1200	872	1940	1080	2290	2470
Minimum		.37	.45	3.53	17	9.7	14

Miscellaneous Measurements in Yadkin - Pee Lee River Basin in N. C.  
Million Gallons per day

Date	Stream	Location	Tributary to	Discharge M.G.P.D.
Oct. 20, 1902	Pee Lee River	At Seaboard Airline R. R. bridge near Rockingham	Atlantic Ocean	2250
June 20, 1900	Yadkin River	At second ford below Patterson's Mill	Pee Dee River	118
July 14, 1900	do	do	do	64.6
Aug. 7, 1900	do	do	do	49.2
Sept. 26, 1900	do	do	do	27.8
June 21, 1900	do	At Wilkesboro	do	504
June 23, 1900	do	do	do	1120
July 4, 1900	do	do	do	428
July 12, 1900	do	do	do	315
Aug. 6, 1900	do	do	do	249
Oct. 1, 1900	do	do	do	238
Nov. 4, 1900	do	do	do	860
Apr. 21, 1904	do	At Crutchfield	do	661
July 11, 1900	do	1/3 mile south Southern R. R. station at Siloam	do	883
Aug. 3, 1900	do	do	do	787
Oct. 31, 1900	do	do	do	949
Apr. 15, 1901	do	do	do	3380
Apr. 23, 1920	do	At U. S. G. S. Gaging Station at Donaha	do	1580
July 12, 1920	do	do	do	4240
July 15, 1920	do	do	do	1760
Aug. 26, 1920	do	do	do	8910
Sept. 11, 1920	do	do	do	1400
Aug. 13, 1940	Buffalo Creek	At Patterson School dam near Patterson	Yadkin River	11100
June 20, 1900	Elk Creek	1/4 mile above ford at Elkville	do	76.9
July 13, 1900	do	do	do	39.4
Aug. 6, 1900	do	do	do	23.9
Sept. 26, 1900	do	do	do	19.4
Mar. 22, 1921	do	At Elkville, Wilkes County	do	89.8
Aug. 13, 1940	do	do	do	46800
Aug. 13, 1940	do	300 yds. upstream from State Highway 268 at Elkville	do	46200
Oct. 30, 1940	do	3 3/4 miles above mouth near Hendrix Foot bridge at Culberts, 3 miles above mouth	do	59.2
Aug. 13, 1940	Stony Creek		do	24100
June 21, 1900	do		do	50.6

Miscellaneous Measurements in Yadkin - Fee Dee River Basin in N. C.  
(Continued)  
Million Gallons per day

Date	Stream	Location	Tributary to	Discharge M.G.P.D.
July 13, 1900	Stony Creek	At foot bridge at Culberts, 3 miles above mouth	Yadkin River	52.0
Aug. 6, 1900	do	do	do	32.3
Sept. 26, 1900	do	do	do	20.1
Aug. 13, 1940	East Fork of Lewis Fork	1/2 mile above Cole Creek near Purlear	do	4800
June 21, 1900	Lewis Fork	At Mt. Pleasant road, just below confluence of East and West Fork at Champion	do	82.0
July 13, 1900	do	do	do	64.0
Aug. 6, 1900	do	do	do	44.6
Sept. 26, 1900	do	do	do	40.7
Aug. 13 or 14, 1940	West Fork of Lewis Fork	3 miles above East Fork near Goshen	East Fork of Lewis Fork	17700
Oct. 20, 1921	Reddies River	At footlog 7 miles above mouth near North Wilkesboro	Yadkin River	33.2
Aug. 19, 1925	do	Above power plant near North Wilkesboro	do	23.1
June 23, 1900	do	At North Wilkesboro	do	141
July 12, 1900	do	do	do	63.4
Aug. 4, 1900	do	do	do	60.1
Oct. 1, 1900	do	do	do	38.9
Apr. 18, 1904	do	do	do	48.4
June 9, 1904	do	do	do	98.8
Sept. 23, 1904	do	do	do	51.7
Jan. 4, 1905	do	do	do	53.0
Aug. 23, 1905	do	do	do	169
June 19, 1906	do	do	do	174
Aug. 14, 1940	Mulberry River	0.8 mile below Hay Meadow Creek near Mulberry	do	10300
June 23, 1900	do	At Southern Rwy, bridge near North Wilkesboro	do	69.8
July 3, 1900	do	do	do	32.5
Aug. 4, 1900	do	do	do	25.3
Sept. 27, 1900	do	do	do	39.5
Nov. 2, 1900	do	do	do	35.5

Miscellaneous Measurements in Yadkin - Pee Dee River Basin in N. C.  
(Continued)  
Million Gallons per day

Date	Stream	Location	Tributary to	Discharge M. G. P. D.
Nov. 7, 1903	Mulberry River	At Southern Rwy. bridge near North Wilkesboro	Yadkin River	30.4
Apr. 19, 1904	do	do	do	26.5
June 8, 1904	do	do	do	39.4
Sept. 22, 1904	do	do	do	18.7
Jan. 4, 1905	do	do	do	18.1
Apr. 26, 1905	do	do	do	39.4
Aug. 19, 1925	Roaring River	At road crossing 5 miles above mouth near Roaring River	do	20.0
Aug. 14, 1940	do	1 1/2 miles above mouth near Roaring River	do	11000
June 25, 1900	do	At Southern Rwy. bridge at town of Roaring River	do	336
July 9, 1900	do	do	do	104
Aug. 4, 1900	do	do	do	75.6
Sept. 27, 1900	do	do	do	70.4
Nov. 2, 1900	do	do	do	127
Apr. 24, 1904	do	do	do	80.8
June 9, 1904	do	do	do	115
Sept. 23, 1904	do	do	do	46.5
Jan. 4, 1905	do	do	do	47.2
Apr. 26, 1905	do	do	do	73.0
Aug. 23, 1905	do	do	do	136
Oct. 20, 1921	do	At steel bridge half a mile above mouth near Roaring River	do	69.1
Sept. 27, 1900	Big Backaboo Creek	At ford of road from Roaring River to Elkin, near Ronda	do	19.4
Apr. 19, 1904	Little Elkin Creek	Near Elkin	do	15.5
June 9, 1904	do	do	do	17.4
June 25, 1900	Elkin River	At Southern Rwy. bridge at Elkin	do	42.0
July 9, 1900	do	do	do	18.7
Aug. 4, 1900	do	do	do	15.5
Sept. 27, 1900	do	do	do	17.4
Aug. 19, 1925	Mitchell River	200 ft. above Snow Creek at Burch	do	23.6
June 26, 1900	do	At Southern Rwy. bridge at Burch about a mile below Snow Creek	do	254
July 10, 1900	do	do	do	89.8

Miscellaneous Measurements in Yadkin - Pee Dee River Basin in N. C.  
(Continued)  
Million Gallons per day

Date	Stream	Location	Tributary to	Discharge M. G. P. D.
Aug. 3, 1900	Mitchell River	At Southern Hwy. Bridge at Burch about a mile below Snow Creek	Yadkin River	76.9
Sept. 28, 1900	do	do	do	103
Nov. 1, 1900	do	do	do	140
Apr. 20, 1904	do	do	do	62.0
Sept. 23, 1904	do	do	do	44.6
Apr. 27, 1905	do	do	do	80.8
Sept. 17, 1930	do	About 500 ft. above junction with Yadkin River on Elkin-Mt. Airy highway	do	61.9
Aug. 19, 1925	Snow Creek	300 ft. above mouth at Burch	Mitchell River	4.24
June 26, 1900	Fisher River	At Southern Hwy. bridge near Grutchfield	Yadkin River	355
July 10, 1900	do	do	do	111
Aug. 3, 1900	do	do	do	81.4
Sept. 28, 1900	do	do	do	76.9
Nov. 1, 1900	do	do	do	152
Apr. 20, 1904	do	do	do	101
Sept. 24, 1904	do	do	do	51.7
Aug. 19, 1925	Ararat River	100 ft. above bridge at Mt. Airy	do	17.6
Nov. 11, 1903	do	At Mt. Airy above Lovell and Stewart Creeks	do	45.9
Nov. 10, 1903	do	At Mt. Airy below Lovell and Stewart Creeks	do	129
Aug. 14, 1940	do	At Duke Power Co. Plant No. 3, near Pilot Mountain	do	15400
June 27, 1900	do	At Southern Hwy. bridge at Biloum	do	517
July 11, 1900	do	do	do	205
Aug. 2, 1900	do	do	do	171
Sept. 29, 1900	do	do	do	157
Oct. 31, 1900	do	do	do	198
Apr. 21, 1904	do	do	do	179
June 9, 1904	do	do	do	198
Sept. 24, 1904	do	do	do	110
Jan. 5, 1905	do	do	do	135
Aug. 24, 1905	do	do	do	390
Nov. 10, 1903	Lovell Creek	At Mt. Airy	Ararat River	28.4
Sept. 17, 1930	Stewart Creek	100 ft. above concrete bridge on Elkin-Mt. Airy hwy. at Mt. Airy	do	33.8

Miscellaneous Measurements in Yadkin - Pee Dee River Basin in N. C.  
(Continued)  
Million Gallons per day

Date	Stream	Location	Tributary to	Discharge M.G.P.D.
Oct. 9, 1940	Little Yadkin River	1 1/4 mi. upstream from mouth, near Donaha	Yadkin River	11.6
Dec. 30, 1940	do	do	do	28.7
Jan. 28, 1941	do	do	do	27.6
Feb. 25, 1941	do	do	do	20.2
Mar. 28, 1941	do	do	do	63.6
May 29, 1941	do	do	do	8.53
July 2, 1941	do	do	do	11.0
July 14, 1941	do	do	do	24.9
July 17, 1941	do	do	do	254
Aug. 25, 1941	do	do	do	189
Sept. 26, 1941	do	do	do	8.08
Nov. 7, 1941	do	do	do	5.84
Nov. 21, 1941	do	do	do	7.43
Dec. 4, 1941	do	do	do	11.6
Jan. 19, 1942	do	do	do	84.0
Feb. 17, 1942	do	do	do	191
Aug. 14, 1940	Rocky River	At Robertsons Mill, near Jennings	South Yadkin River	1940
Aug. 14, 1940	Hunting Creek	South of State highway 115 and 6.6 miles from U. S. highway 421 near Spurgeon	do	7490
Mar. 5, 1940	do	At highway bridge about 1 1/2 mi. south of Calahalan, near Mocksville	do	131
July 31, 1925	Third Creek	At old U. S. D. A. gaging station at McHenry's bridge, 6 miles east of Statesville, N. C.	do	11.4
Aug. 22, 1925	do	do	do	12.9
Nov. 17, 1938	Abbotts Creek	Above mouth of Brushy Creek near Thomasville	Yadkin River	5.92
Nov. 17, 1938	do	do	do	5.87
May 4, 1931	do	100 ft. above pump intake and 500 ft. below Brushy Fork Creek, nr. Thomasville	do	5.14
Aug. 31, 1932	do	500 ft. above pumping station, 5 miles west of Thomasville	do	1.97
Sept. 23, 1932	do	do	do	10.6

Miscellaneous Measurements in Yadkin - Pee Dee River Basin in N. C.  
(Continued)  
Million Gallons per day

Date	Stream	Location	Tributary to	Discharge M.G.P.D.
Oct. 2, 1932	Abbotts Creek	Just above intake for Thomasville water works	Yadkin River	5.06
Oct. 4, 1932	do	do	do	4.98
Nov. 17, 1938	do	Below mouth of Brushy Creek nr. Thomasville	do	9.56
Nov. 17, 1938	do	do	do	10.0
Nov. 17, 1938	Brushy Creek	100 ft. above mouth near Thomasville	Abbotts Creek	4.44
Nov. 17, 1938	do	do	do	4.41
Sept. 23, 1932	Leonards Creek	At U. S. highway 70. about one mile above mouth near Lexington	do	1.21
Oct. 2, 1932	do	do	do	1.16
Oct. 4, 1932	do	do	do	1.23
Oct. 3, 1930	Uwharrie River	At highway bridge 3 mi. east of Eldorado	Pee Dee River	7.95
Oct. 5, 1925	Big Cold Creek	150 yds. above intake of city water works at Concord	Irish Buffalo Creek	1.03
Mar. 20, 1944	Dutch Buffalo Creek	At site of former gaging station, near Mount Pleasant	Rocky River	762
Sept. 29, 1930	Richardson Creek	At highway crossing at head of Monroe municipal reservoir	do	.12
Sept. 29, 1930	Lanes Creek	at bridge on U. S. highway 74 west of Polkton	do	.50
Oct. 29, 1935	Brown Creek	At U. S. G. S. gaging station at Medley's Mill near Polkton	Pee Dee River	26.4
Oct. 29, 1935	do	do	do	30.6
Oct. 30, 1935	do	do	do	12.9
Dec. 20, 1935	do	do	do	14.5
Dec. 21, 1935	do	do	do	11.8
Jan. 24, 1936	do	do	do	85.3
Feb. 27, 1936	do	do	do	42.4
Mar. 26, 1936	do	do	do	74.3
Apr. 10, 1936	do	do	do	616
May 1, 1936	do	do	do	9.37
June 13, 1936	do	do	do	7.30
Sept. 28, 1936	do	do	do	.96
Jan. 4, 1937	do	do	do	315
Jan. 4, 1937	do	do	do	279
Jan. 5, 1937	do	do	do	213
Jan. 5, 1937	do	do	do	200

Miscellaneous Measurements in Yadkin - Pee Dee River Basin, N. C.

(Continued)

Million Gallons per day

Date	Stream	Location	Tributary to	Discharge M. G. P. D.
Jan. 22, 1937	Brown Creek	At U. S. G. S. gaging station at Medley's Mill near Polkton	Pee Dee River	227
Mar. 18, 1937	do	do	do	204
June 9, 1937	do	do	do	10.8
Aug. 4, 1937	do	do	do	.22
Aug. 25, 1937	do	do	do	13.9
Sept. 29, 1930	do	Fifty feet above old steel bridge on U. S. Highway 52, 5 mi. north of Wadesboro	do	.50
Sept. 19, 1930	Falling Creek	At municipal water works, Rockingham	do	2.95
Sept. 19, 1930	Hitchcock Creek	Opposite east end of railroad trestle just north of center of Rockingham	Falling Creek	1.08
Sept. 19, 1930	Drowning Creek (Head of Lumber River)	200 feet downstream from U. S. Highway 1, at site of U. S. G. S. gaging station near Hoffman	Pee Dee River	50.6
Apr. 5, 1945	Deep Creek	At site of former gaging station near Roseland	Drowning Creek	18.9
Apr. 5, 1945	Aberdeen Creek	At U. S. Highway 1 at Aberdeen	do	14.0
Nov. 17, 1941	do	One-half mi. below bridge on U. S. Highway 1 near Aberdeen	do	10.0
Nov. 17, 1941	Rays Mill Creek	Near Aberdeen	Aberdeen Creek	1.83
May 22, 1945	do	Above Aberdeen & Rockfish R. R. at Aberdeen	do	2.88
Nov. 17, 1941	Patterson Branch	At bridge on U. S. Highway 1 near Aberdeen	do	1.10
June 13, 1943	Big Swamp	One-half mi. east of Tolarsville	Lumber River	20.2

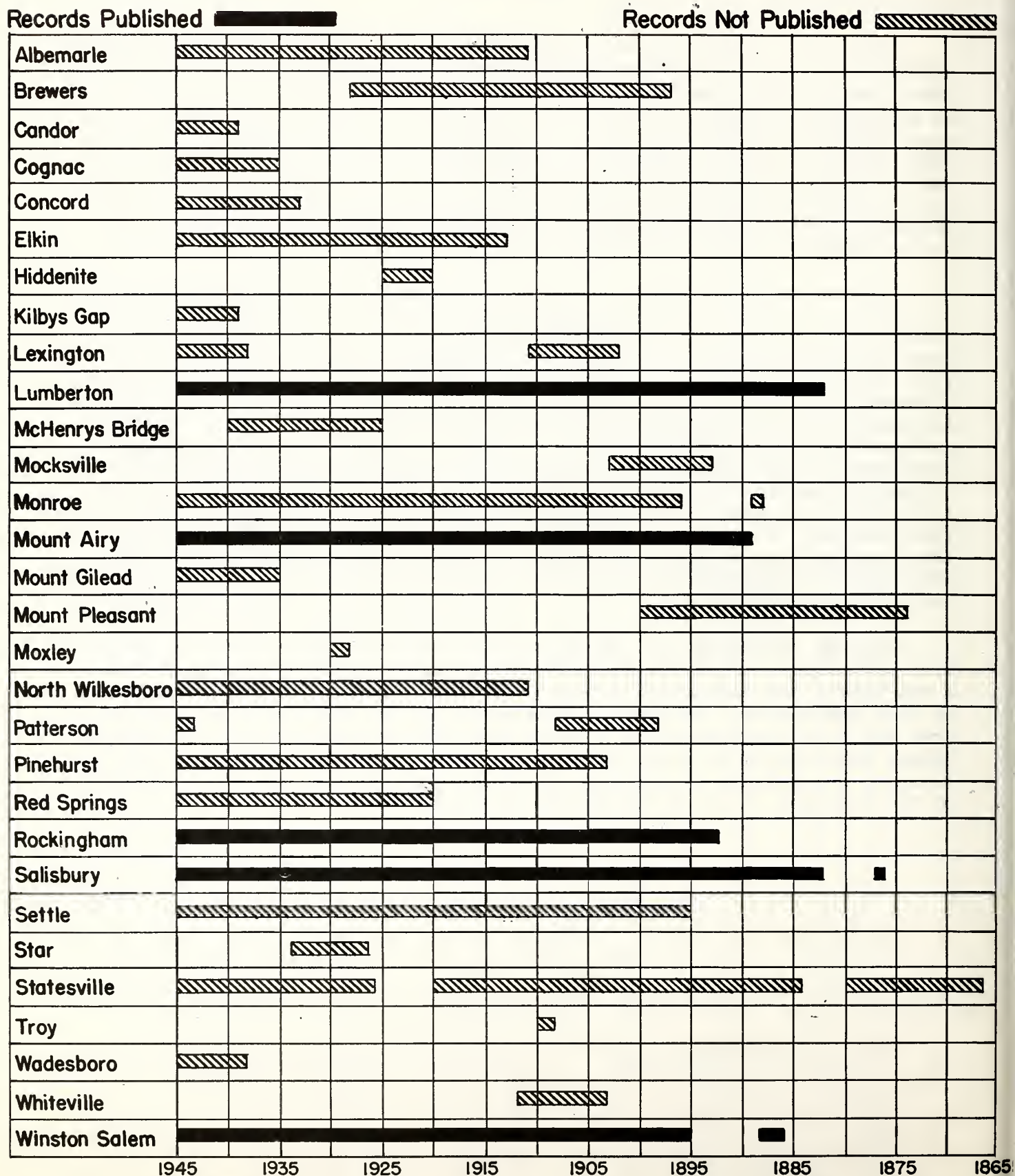
## CLIMATOLOGICAL

The United States Weather Bureau at the present time is operating twenty-one rainfall stations, of which twelve also give temperature, in the Yadkin - Pee Dee River Basin in North Carolina. Only five of these are published in this report, as a very good conception of the whole basin can be obtained from these and the maps showing rainfall isohyets and temperature isotherms. These five stations were selected for their length of record as well as their location in the basin. Daily records for all stations in this river basin are available in the office of the U. S. Weather Bureau, Raleigh, North Carolina, and in the office of the Division of Water Resources and Engineering of the Department of Conservation and Development, Raleigh, North Carolina.

The mean annual rainfall of this basin varies from 44 inches to 51 inches as shown on the map on page 101. Among the characteristics which are established it may be noted that at the extreme Southeast corner around Whiteville the 25 year mean is 48 inches, this gradually decreases to 46 inches around Red Springs with a further decrease to 44 inches almost due west at Monroe. Then proceeding upstream, it increases very slowly until 51 inches are reached at the headwaters. Another low point of 44 inches is found around Winston-Salem. The average rainfall over this basin for the 25 year period of 1921-1945 is 46.67 inches as determined from 13 stations in the basin. The exposure is northwest-southeast, in direct line with a number of the West Indian tropical storms. The effects of topography are brought out by the Blue Ridge escarpment. Storms impinging against this mountain front cause heavy freshets in the headwater tributaries. Most of the precipitation in this basin occurs as rainfall; the small amounts of snow which fall are unimportant, since it is not sufficient to remain and cause damaging spring freshets.

The mean annual temperature of the basin for the 25 years 1921-1945 varies from 54.0 degrees in the extreme western edge to 63.5 degrees near the coast. A map showing the mean annual isotherms for the basin will be found on page 103 of this publication. The average temperature for the whole basin as computed from the eight stations having a record from 1921 through 1945 is 60.5 degrees. Summer temperatures in excess of 100 degrees are occasionally recorded, but freezing temperatures of more than one or two days duration are rare. The effect of the formation of ice on the streams is negligible.

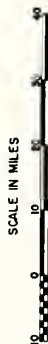
# RAINFALL STATIONS IN YADKIN-PEE DEE RIVER BASIN SHOWING RECORDS AVAILABLE



N.C. DEPT. OF CONSERVATION AND DEVELOPMENT  
DIVISION OF WATER RESOURCES AND ENGINEERING

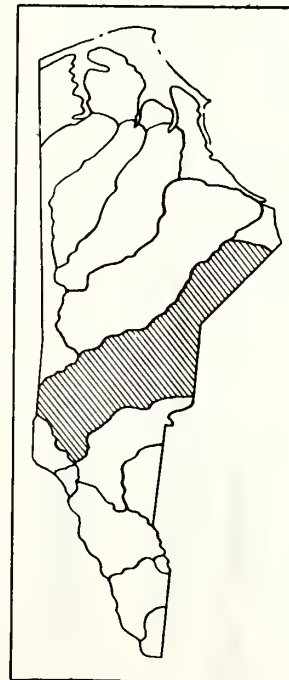
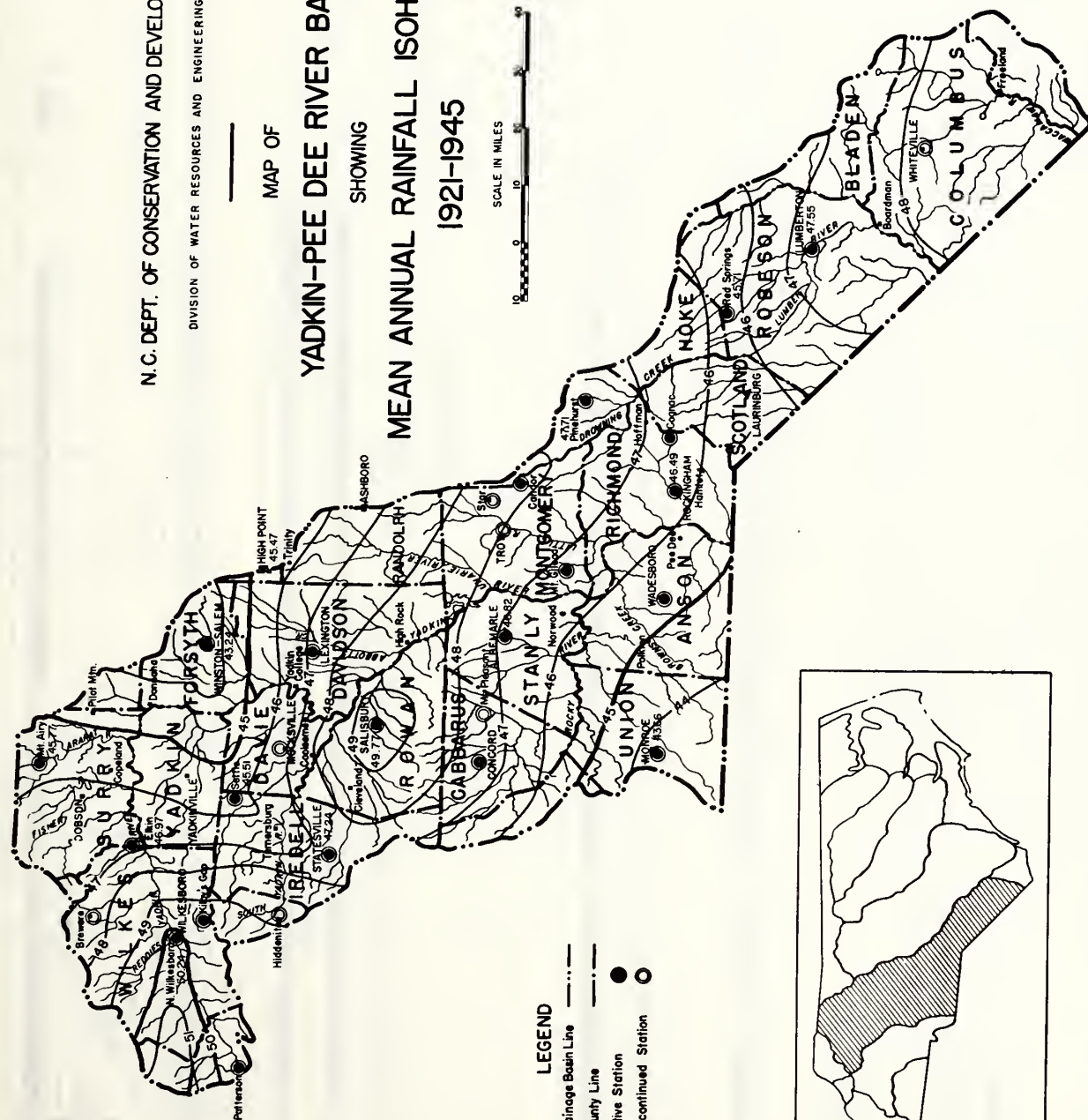
MAP OF

# YADKIN-PEE DEE RIVER BASIN SHOWING MEAN ANNUAL RAINFALL ISOHYETALS 1921-1945



## LEGEND

- Drainage Basin Line ———
- County Line - - - - -
- Active Station ●
- Discontinued Station ○



# TEMPERATURE STATIONS IN YADKIN-PEE DEE RIVER BASIN SHOWING RECORDS AVAILABLE

Records Published										Records Not Published									
	1945	1935	1925	1915	1905	1895	1885	1875	1865										
Albemarle	///	///	///	///	///														
Brewers			///	///	///	///													
Concord	///	///																	
Lexington					///														
Lumberton	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///
Mocksville						///													
Monroe	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///
Mount Airy	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///
Mount Pleasant								///	///	///	///	///	///	///	///	///	///	///	///
Moxley			///																
Patterson					///														
Pinehurst	///	///	///	///	///	///													
Rockingham	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///
Salisbury	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///
Star		///	///																
Statesville	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///
Troy					///														
Wadesboro	///	///																	
Winston Salem	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///	///
Whiteville				///	///														

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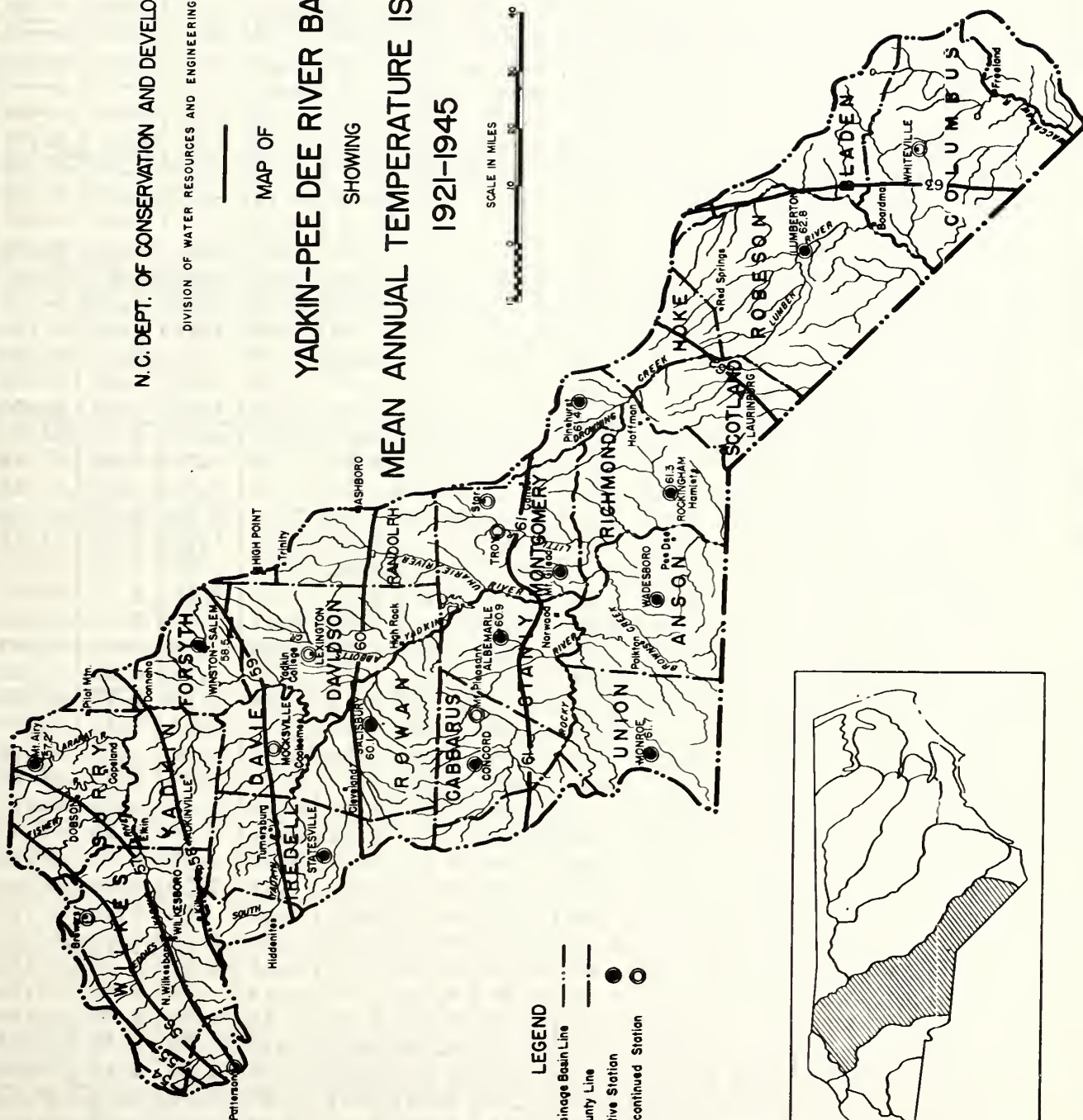
MAP OF

# YADKIN-PEE DEE RIVER BASIN

SHOWING

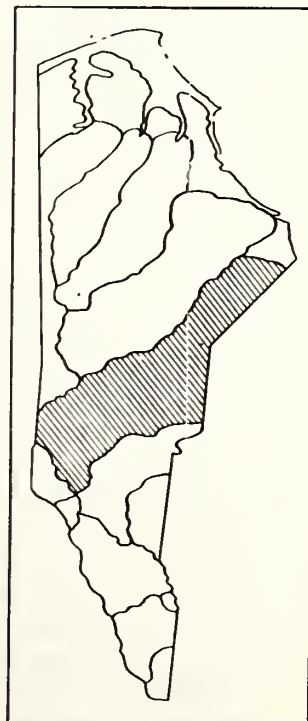
## MEAN ANNUAL TEMPERATURE ISOTHERMS 1921-1945

SCALE IN MILES



### LEGEND

- Drainage Basin Line — — —
- County Line — — —
- Active Station ●
- Discontinued Station ○



Precipitation in Lumberton, Robeson County, North Carolina:  
Monthly and annual (in inches and hundredths)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1882	----	----	----	5.87	0.75	1.81	5.73	10.09	4.33	2.84	----	----	-----
1883	----	----	----	4.21	3.50	5.32	2.41	2.20	12.50	3.10	----	----	-----
1884	----	----	----	2.79	4.23	5.60	4.47	5.31	6.08	.11	----	----	-----
1885	----	----	----	----	6.46	7.67	7.34	3.02	3.69	4.04	----	----	-----
1886	----	----	----	1.51	3.26	10.51	7.09	8.18	3.24	.20	----	----	-----
1887	----	----	----	----	2.75	1.98	2.97	9.11	1.12	9.51	----	----	-----
1888	----	----	----	1.91	5.97	4.00	5.29	4.10	9.83	2.64	----	----	-----
1889	----	----	----	----	3.13	6.80	8.65	7.61	1.58	1.34	3.51	----	-----
1890	0.90	2.30	2.90	3.10	8.00	6.80	6.62	6.99	4.67	3.80	1.11	4.00	51.19
1891	4.20	3.40	6.50	2.00	3.53	4.82	5.43	10.64	1.59	1.16	2.35	1.50	47.12
1892	5.00	4.10	3.30	3.40	3.82	6.04	5.22	4.91	2.75	1.16	1.93	2.80	44.43
1893	2.80	3.30	3.40	1.90	5.90	7.83	7.62	8.15	5.31	6.71	2.78	3.90	59.60
1894	4.70	5.00	2.60	1.47	3.80	2.93	8.60	9.39	7.26	7.50	1.24	2.20	56.69
1895	9.04	2.66	5.31	9.98	3.36	4.72	2.66	8.47	.80	2.00	2.02	1.40	52.42
1896	4.65	5.15	1.80	.89	2.99	4.51	4.81	4.28	5.41	1.80	4.40	3.40	44.09
1897	1.80	6.20	4.10	3.10	5.39	6.16	8.03	4.37	1.65	2.54	1.90	2.56	47.80
1898	1.92	1.12	2.76	6.60	2.02	2.29	7.38	7.98	4.36	2.26	4.97	2.71	46.37
1899	4.22	8.42	2.97	4.59	3.96	5.30	9.03	3.81	3.08	6.08	2.28	2.20	55.94
1900	2.85	6.11	4.79	5.14	2.88	3.17	3.00	1.50	1.83	3.32	4.17	5.28	44.04
1901	4.02	2.18	3.56	4.25	12.52	5.47	6.54	6.97	9.38	1.21	1.01	5.65	62.76
1902	2.15	5.92	2.52	2.98	3.42	2.29	2.63	4.49	3.32	4.44	4.34	3.28	41.78
1903	3.15	7.43	5.87	3.64	2.13	6.44	6.25	3.55	1.26	4.25	.35	2.52	46.84
1904	2.37	4.44	3.70	1.00	1.60	5.57	3.44	8.30	7.28	2.96	2.35	2.50	45.51
1905	1.96	5.53	2.39	3.83	8.26	2.32	4.39	4.31	1.50	2.21	1.23	5.19	43.12
1906	4.10	6.34	6.61	.93	2.08	8.17	7.81	4.74	2.91	2.64	1.02	3.31	50.66
1907	.37	4.08	2.22	3.98	4.71	8.41	6.87	7.46	6.17	.97	2.45	5.07	52.76
1908	2.68	4.61	5.82	4.29	1.43	6.51	9.06	8.74	2.60	4.81	1.09	3.17	54.81
1909	1.40	3.97	1.87	2.69	3.01	7.22	3.59	7.57	2.76	1.53	.44	2.38	38.43
1910	4.03	5.35	1.84	2.24	3.44	7.89	3.91	6.05	1.75	1.77	.72	2.31	41.30
1911	1.84	.56	2.90	1.82	.40	5.36	3.75	10.06	4.85	4.84	4.36	2.35	43.09
1912	6.55	4.86	5.76	2.13	5.16	6.14	2.35	3.82	5.99	.28	2.17	1.16	46.37
1913	2.14	4.81	6.52	2.08	3.58	7.53	5.63	5.73	5.79	11.95	1.06	5.73	62.55
1914	2.72	4.99	3.60	2.53	.58	4.54	1.70	6.32	3.61	3.87	1.97	3.16	39.59
1915	6.16	3.50	2.32	4.23	7.04	3.92	5.54	5.31	2.11	3.55	1.42	1.68	46.78
1916	2.11	3.34	3.26	2.21	4.04	5.91	14.16	4.17	2.80	3.34	1.14	2.20	48.66
1917	3.35	2.30	3.41	2.22	3.66	9.28	5.09	1.77	9.05	1.06	1.03	2.90	45.12
1918	2.19	1.63	2.53	13.74	3.94	4.51	5.23	3.15	4.47	.85	3.30	5.40	50.94
1919	2.42	3.60	3.57	3.83	3.13	3.26	7.02	2.99	1.61	4.48	.40	1.33	37.04
1920	1.66	5.14	4.46	4.78	1.22	4.51	4.31	6.16	11.23	.84	4.86	4.25	53.42
1921	2.83	4.32	3.67	2.38	5.46	3.46	6.07	2.32	1.85	1.48	4.11	1.26	39.21
1922	2.54	6.20	6.53	3.10	4.93	7.50	6.38	9.74	1.73	6.73	.76	6.04	62.18
1923	3.19	2.06	4.53	2.80	2.50	1.47	6.34	5.22	2.54	.89	1.95	1.67	35.16
1924	4.63	5.18	2.67	5.16	6.58	5.53	10.21	3.57	14.03	1.15	.79	6.24	65.74
1925	6.54	1.39	1.43	3.02	6.41	7.17	2.91	3.81	4.99	2.67	2.66	3.46	46.46
1926	4.76	4.63	3.07	4.45	.71	3.90	5.73	3.56	2.11	.97	1.99	1.95	37.83
1927	.68	2.88	3.26	.45	1.92	8.02	4.18	6.65	1.25	3.64	.93	4.25	38.11
1928	.86	5.71	3.68	6.58	5.60	2.58	6.60	4.11	15.11	3.01	1.68	2.95	58.47
1929	5.55	7.70	6.05	3.15	6.58	7.83	5.22	2.87	5.40	5.65	4.02	4.05	64.07
1930	6.38	.93	3.24	1.96	2.00	4.55	4.19	1.93	4.52	3.47	3.48	5.84	42.49
1931	2.80	2.11	2.91	3.22	4.66	2.50	4.67	5.66	0.68	0.93	1.54	5.41	37.09
1932	2.30	2.21	2.30	1.93	4.05	4.29	3.72	3.47	3.75	5.50	7.56	5.49	46.57
1933	2.76	6.72	1.68	2.16	3.98	2.97	5.35	6.66	3.36	0.74	0.52	0.19	37.09
1934	0.71	3.01	3.40	0.47	4.59	3.91	9.51	4.86	5.52	0.70	4.82	2.39	43.89
1935	3.67	2.42	5.63	3.26	3.31	1.95	4.70	4.54	8.21	1.15	1.39	4.34	44.57

Precipitation in Lumberton, Robeson County, North Carolina:  
Monthly and annual (in inches and hundredths) continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1936	4.93	4.90	5.96	4.45	0.49	5.18	4.13	3.44	2.81	3.60	1.62	4.68	46.19
1937	6.17	4.01	2.42	8.36	1.43	2.45	4.88	5.79	1.32	2.43	3.55	2.49	45.30
1938	2.50	0.43	2.42	9.61	5.43	9.45	8.76	5.52	6.62	1.07	3.35	2.01	57.17
1939	2.53	8.60	3.65	4.73	2.71	6.26	6.55	6.16	2.38	0.67	1.69	2.47	48.40
1940	3.07	3.87	2.52	3.61	3.00	1.93	4.32	6.45	3.14	0.14	2.45	1.63	36.13
1941	1.23	2.25	7.56	2.75	1.25	7.31	8.89	5.82	2.44	1.10	0.64	5.13	46.37
1942	1.67	4.07	7.34	1.20	3.12	4.87	5.11	9.94	3.33	1.92	1.11	3.08	46.76
1943	3.73	1.31	5.98	4.19	3.18	7.36	9.64	2.75	1.35	0.30	1.90	4.51	46.20
1944	3.75	5.55	6.15	3.80	2.56	2.27	13.69	5.27	5.12	2.93	2.50	1.40	54.99
1945	2.80	3.55	1.93	4.35	5.70	8.80	7.25	7.72	9.68	1.55	1.80	7.12	62.25

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Max.	6.54	8.60	7.56	9.61	6.58	9.45	13.69	9.94	15.11	6.73	7.56	7.12	65.74
Min.	.68	.43	1.43	.45	.49	1.47	2.91	1.93	.68	.14	.52	.19	35.16
Mean	3.30	3.84	4.00	3.65	3.69	4.94	6.36	5.11	4.53	2.18	2.35	3.60	47.55

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Max.	9.04	8.60	7.56	13.74	12.52	10.51	14.16	10.64	15.11	11.95	7.56	7.12	65.74
Min.	.37	.43	1.43	.45	.40	1.47	1.70	1.50	.68	.11	.35	.19	35.16
Mean	3.25	4.08	3.84	3.59	3.80	5.27	5.95	5.62	4.45	2.79	2.25	3.35	48.05

Average Temperature - Lumberton, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1882	----	----	----	----	----	----	79.6	79.0	73.2	65.1	----	----	----
1883	----	----	----	58.6	69.2	78.8	82.2	78.4	71.4	64.9	----	----	----
1884	----	----	----	59.2	72.6	73.8	79.8	77.8	71.4	67.0	----	----	----
1885	----	----	----	----	68.8	76.4	80.0	78.6	71.6	59.0	----	----	----
1886	----	----	----	65.4	70.3	76.0	78.4	78.0	74.4	61.7	----	----	----
1887	----	----	----	----	71.9	76.4	82.2	77.7	69.8	60.2	----	----	----
1888	----	----	----	62.4	70.4	77.4	77.8	79.0	71.6	58.8	----	----	----
1889	----	----	----	----	69.8	75.4	79.6	75.6	70.8	58.4	54.6	----	----
1890	----	----	----	62.4	71.4	80.0	78.0	76.6	73.0	61.8	52.8	----	----
1891	----	----	----	----	67.4	78.0	76.8	78.8	73.1	58.8	51.0	----	----
1892	----	----	----	62.2	71.0	77.9	79.3	80.0	71.1	59.6	51.0	----	----
1893	----	----	----	65.6	69.6	76.8	81.8	78.4	74.0	63.4	52.4	----	----
1894	----	----	----	62.6	71.8	77.7	78.8	78.6	75.2	63.7	52.1	49.0	----
1895	44.0	36.6	52.3	60.8	69.0	79.0	80.2	79.5	76.4	58.5	54.9	44.4	61.3
1896	43.0	46.7	50.6	66.1	76.2	77.5	82.4	80.6	73.5	60.2	----	----	----
1897	----	----	----	63.4	69.3	78.8	81.6	79.2	73.2	64.2	53.4	45.1	----
1898	48.4	41.8	56.5	58.2	72.6	78.8	81.0	80.3	75.4	62.8	49.5	44.4	62.5
1899	41.6	39.0	53.4	58.6	71.2	78.2	79.4	80.6	72.4	62.3	52.1	43.8	61.0
1900	42.8	41.6	49.4	61.2	70.4	76.8	82.9	83.8	76.4	66.0	54.2	42.7	62.4
1901	42.4	39.8	51.1	55.3	72.1	76.8	81.6	80.0	74.0	60.3	45.0	42.0	60.0
1902	39.4	38.4	53.1	59.0	72.6	77.8	82.0	78.2	71.6	63.6	56.6	44.6	61.4
1903	42.0	46.8	60.4	59.4	70.4	74.4	81.4	80.5	71.6	58.6	47.6	37.1	60.8
1904	36.7	39.0	----	58.7	69.0	76.9	79.4	78.6	72.4	60.5	49.2	42.3	----
1905	38.8	37.6	56.2	60.7	73.0	77.6	80.7	77.5	75.3	63.2	53.0	44.0	61.5

## Average temperature - Lumberton, N. C.

Continued

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1906	46.8	43.6	49.6	63.1	70.0	77.8	78.9	81.5	77.5	61.4	52.3	45.0	62.3
1907	49.5	41.6	57.9	54.8	69.2	74.2	80.8	79.0	76.4	59.4	50.8	45.0	61.6
1908	42.4	43.0	59.4	65.8	71.8	76.4	79.8	78.8	72.4	62.1	54.4	48.6	62.9
1909	48.0	50.8	52.2	63.7	69.6	79.2	77.6	78.3	71.8	59.5	56.0	40.6	62.3
1910	43.4	43.6	58.8	62.2	69.2	74.8	79.6	79.0	75.7	66.1	48.6	40.0	61.8
1911	47.6	49.0	51.3	60.6	72.3	80.0	80.0	80.3	79.0	66.4	50.0	48.4	63.7
1912	38.1	40.3	52.3	64.3	72.3	75.4	79.8	79.2	77.6	63.6	50.8	47.5	61.8
1913	52.9	47.8	57.4	60.4	70.8	75.2	81.8	78.3	71.6	62.0	52.3	46.7	63.1
1914	46.0	42.5	48.1	62.6	71.9	79.6	81.3	80.2	71.0	64.7	50.8	42.7	61.8
1915	44.8	48.0	44.7	62.2	71.4	75.4	81.0	79.6	76.5	66.7	54.3	41.8	62.2
1916	50.5	46.4	51.5	60.5	73.3	75.8	79.0	80.2	72.0	64.0	54.2	45.2	62.7
1917	48.4	45.8	53.6	64.6	66.2	77.4	80.7	79.4	70.0	59.4	48.6	36.5	60.9
1918	35.4	49.8	57.8	59.4	72.6	75.8	77.2	80.1	69.1	67.3	53.0	50.0	62.3
1919	47.2	46.3	56.6	62.0	72.0	76.7	79.6	78.8	73.5	74.3	55.6	45.0	64.0
1920	46.0	44.0	53.2	62.3	66.1	77.4	79.2	78.3	75.6	64.5	53.2	46.8	62.2
1921	47.0	50.2	63.4	64.6	67.9	79.2	80.0	79.3	81.4	64.2	57.8	49.2	65.4
1922	44.4	52.6	56.6	65.2	71.8	78.4	80.7	76.6	75.5	65.4	54.2	51.0	64.4
1923	50.6	46.2	58.0	61.8	69.2	78.6	79.6	80.4	76.3	62.2	52.2	52.3	64.0
1924	44.0	44.4	52.2	62.0	69.4	78.6	78.9	80.0	71.2	62.3	54.5	48.5	62.2
1925	45.0	54.0	58.0	66.0	67.8	79.2	82.0	79.3	80.7	64.4	51.9	44.4	64.4
1926	45.1	50.6	49.4	60.4	70.2	77.6	82.0	81.8	77.7	66.0	51.0	49.2	63.4
1927	46.8	56.4	56.3	64.0	72.4	76.4	79.2	76.6	76.4	65.8	58.1	47.8	64.7
1928	43.3	46.1	54.0	60.7	68.2	77.8	80.9	81.0	72.4	66.5	54.2	46.0	62.8
1929	48.2	45.2	59.0	65.0	69.8	74.8	77.9	78.8	73.2	61.7	54.8	45.8	62.8
1930	46.7	50.8	50.4	63.2	71.9	75.6	81.8	76.1	77.8	59.1	50.4	41.6	62.1
1931	43.3	46.5	48.2	60.0	68.2	77.0	82.2	77.8	76.8	64.7	58.0	52.2	62.9
1932	53.6	53.6	51.2	61.0	68.6	77.4	81.7	78.3	71.7	62.8	50.0	48.2	63.2
1933	50.0	47.9	52.8	61.4	74.6	77.6	78.0	78.8	78.4	63.6	51.3	51.1	63.8
1934	47.5	39.9	51.5	63.0	68.4	79.0	81.4	79.3	76.0	63.0	55.2	45.3	62.5
1935	46.4	47.6	61.2	62.2	70.1	79.2	80.1	79.8	72.6	62.2	54.0	36.4	62.6
1936	40.6	41.7	55.2	59.5	71.5	76.0	81.4	80.8	77.0	65.5	50.5	45.6	62.1
1937	54.0	44.6	50.2	61.4	71.0	79.8	80.0	79.8	71.4	60.2	49.4	42.7	62.0
1938	43.2	50.2	59.4	62.9	71.0	74.0	77.6	79.8	72.4	60.0	55.7	45.0	62.6
1939	45.8	52.4	56.6	60.6	68.4	79.0	77.6	77.0	73.6	64.6	46.8	44.0	62.2
1940	33.0	45.2	51.6	60.5	69.2	78.6	79.4	77.8	70.8	60.6	52.1	48.5	60.6
1941	42.2	39.2	47.8	65.3	72.0	76.8	80.0	78.8	75.5	68.2	52.4	46.9	62.1
1942	43.2	40.5	56.4	64.0	70.6	77.4	80.7	76.5	74.0	62.6	54.4	43.3	62.0
1943	45.8	47.4	52.1	60.4	71.0	79.8	78.6	78.2	69.8	61.0	49.0	43.4	61.4
1944	44.2	49.4	53.4	63.0	72.5	78.6	76.5	75.3	72.3	59.9	50.0	39.2	61.2
1945	41.8	47.4	62.2	65.2	65.2	75.0	78.2	75.6	76.1	63.4	55.4	41.0	62.2

## Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Max.	54.0	56.4	63.4	66.0	74.6	79.8	82.2	81.8	81.4	68.2	58.1	52.8	65.1
Min.	33.0	39.2	47.8	59.5	65.2	74.0	76.5	75.3	69.8	59.1	46.8	36.4	60.6
Mean	45.4	47.6	54.7	62.5	70.0	77.7	79.9	78.5	74.8	63.2	52.9	46.0	62.8

## Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Max.	54.0	56.4	63.4	66.1	76.2	80.0	82.9	83.8	81.4	74.3	58.1	52.8	65.4
Min.	33.0	36.6	44.7	54.8	65.2	73.8	76.5	75.3	69.1	58.4	45.0	36.4	60.0
Mean	44.8	45.6	54.2	61.9	70.5	77.3	80.0	78.9	74.0	62.9	52.5	45.1	62.4

Highest Temperature - Lumberton, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
1888	--	--	--	90	94	98	102	100	89	80	--	--	----
1889	--	--	--	--	97	96	98	70	90	84	--	--	----
1890	--	--	--	--	92	99	96	94	95	88	76	--	----
1891	--	--	--	--	93	97	93	95	91	89	76	--	----
1892	--	--	--	85	93	98	100	96	87	84	82	--	----
1893	--	--	--	93	94	94	102	93	93	92	74	--	----
1894	--	--	--	86	94	97	95	96	94	85	75	74	----
1895	69	71	82	84	98	101	96	94	95	85	78	74	101
1896	64	72	85	92	98	94	101	101	94	80	--	--	----
1897	--	--	--	86	92	98	101	96	97	88	74	68	101
1898	76	72	85	82	97	99	98	97	92	87	74	71	99
1899	74	74	79	85	95	98	97	97	95	82	74	69	98
1900	65	66	73	84	89	93	99	100	96	85	78	68	100
1901	74	69	77	76	92	93	97	97	92	82	77	72	97
1902	68	69	78	83	91	95	102	98	89	85	75	69	102
1903	67	71	79	83	93	91	96	99	90	83	76	63	99
1904	71	73	--	85	94	98	100	98	93	90	74	76	----
1905	73	62	85	88	93	99	101	101	97	92	79	71	101
1906	78	73	79	92	98	98	98	97	95	86	81	77	99
1907	80	73	96	86	93	96	100	96	96	88	79	71	100
1908	69	68	86	92	96	98	98	98	92	90	82	78	98
1909	82	77	83	89	93	96	96	98	93	87	83	74	98
1910	75	77	90	93	96	94	96	98	97	96	77	71	98
1911	76	78	81	89	100	103	98	100	97	96	78	77	103
1912	70	77	85	90	97	97	97	99	101	90	82	74	101
1913	77	76	83	88	97	98	101	96	93	89	80	72	101
1914	79	75	84	95	101	103	106	96	96	88	83	71	106
1915	71	76	77	92	93	97	100	99	99	90	84	74	100
1916	78	79	83	92	99	95	98	97	95	90	83	77	99
1917	76	82	81	95	96	100	100	100	96	88	77	72	100
1918	67	81	87	87	97	101	101	101	92	88	81	78	101
1919	74	71	78	91	93	100	100	95	95	97	84	79	100
1920	76	68	88	90	88	102	99	96	95	88	81	68	102
1921	74	77	87	89	94	101	97	100	102	87	83	71	102
1922	79	78	84	91	92	98	97	93	93	90	82	75	98
1923	76	79	83	90	87	99	96	100	95	85	79	75	100
1924	70	70	83	87	92	102	98	97	96	89	83	78	102
1925	71	79	87	96	95	98	99	103	104	92	78	69	104
1926	70	76	80	84	101	101	108	97	100	92	76	75	108
1927	78	82	85	93	98	99	97	96	100	89	82	79	100
1928	78	71	83	85	91	103	98	98	95	91	82	73	103
1929	77	75	91	94	91	96	98	97	95	87	84	75	98
1930	78	83	75	93	94	99	102	97	96	86	78	68	102
1931	71	75	74	84	91	101	103	98	103	93	84	81	103
1932	78	81	82	86	94	97	104	101	100	83	73	77	104
1933	73	75	85	88	98	104	97	97	98	90	81	77	104
1934	78	70	84	89	93	99	99	98	93	85	81	70	99
1935	77	72	90	87	96	98	100	101	91	87	81	65	101
1936	71	77	85	85	96	101	104	100	98	86	81	68	104
1937	76	75	79	90	97	100	104	95	93	91	78	71	104
1938	74	77	87	89	96	93	95	98	96	85	81	70	98
1939	75	78	85	86	92	95	92	93	97	88	76	72	97
1940	64	70	81	87	98	100	102	97	95	87	78	74	102

Highest Temperature - Lumberton, N. C.  
Continued

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
1941	70	60	76	95	99	99	98	98	95	93	78	73	99
1942	72	68	84	90	90	98	100	97	95	85	80	78	100
1943	80	77	84	90	90	101	96	97	92	85	80	78	101
1944	76	77	85	87	92	100	96	92	94	87	75	70	100
1945	66	79	88	88	87	95	98	93	94	86	84	65	98

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
Max.	80	83	91	96	101	104	108	103	104	93	84	81	108
Min.	64	60	74	84	87	93	92	92	91	83	73	65	97
Mean	74	75	83	89	94	99	99	97	96	88	80	73	101

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
Max.	82	83	96	96	101	104	108	103	104	97	84	81	108
Min.	64	60	73	76	87	91	92	70	87	80	73	63	97
Mean	74	74	83	88	94	98	99	97	95	88	79	73	101

Lowest Temperature - Lumberton, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
1888	--	--	--	36	47	51	57	50	35	34	--	--	--
1889	--	--	--	--	40	50	62	58	44	32	--	--	--
1890	--	--	--	--	42	58	55	53	54	33	24	--	--
1891	--	--	--	--	39	57	58	61	51	29	22	--	--
1892	--	--	--	32	42	60	56	62	41	30	16	--	--
1893	--	--	--	39	46	57	62	62	48	34	24	--	--
1894	--	--	--	36	44	50	58	61	56	37	26	13	--
1895	8	9	29	36	43	52	59	58	50	35	24	18	8
1896	15	12	25	34	48	61	65	56	42	42	--	--	--
1897	--	--	--	34	48	63	64	62	50	41	28	24	--
1898	20	16	28	32	45	57	61	66	56	36	25	18	16
1899	19	1	26	33	49	54	57	67	45	41	34	16	1
1900	17	16	29	34	45	56	65	64	52	38	28	23	16
1901	24	14	18	38	49	59	68	68	54	36	19	15	14
1902	18	22	25	33	50	57	64	57	52	36	32	18	18
1903	21	22	36	34	51	54	65	65	44	30	15	18	15
1904	6	19	--	33	43	50	64	55	45	33	25	22	--
1905	11	15	30	31	50	49	65	53	50	31	25	20	11
1906	19	18	26	32	37	60	62	69	58	28	24	17	17
1907	18	11	27	26	40	53	59	58	55	33	25	19	11
1908	17	17	28	30	39	55	62	59	45	38	27	25	17
1909	17	16	28	31	40	60	54	56	39	29	22	15	15
1910	16	17	27	34	41	46	61	59	46	26	24	15	15
1911	21	25	25	33	43	57	58	62	58	45	25	25	21
1912	10	6	27	35	48	49	62	54	59	33	22	22	6
1913	29	24	28	34	40	49	59	59	44	31	25	21	21
1914	23	18	21	34	45	57	56	55	42	29	19	16	16
1915	24	22	24	30	50	55	60	61	48	37	25	22	22

Lowest Temperature - Lumberton, N. C.  
Continued

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
1916	18	15	23	33	44	55	61	61	47	38	24	22	15
1917	19	13	26	35	40	55	65	61	47	30	20	4	4
1918	5	20	30	33	42	53	52	56	42	38	30	25	5
1919	18	23	33	28	50	52	52	57	49	48	26	19	18
1920	11	20	20	32	41	53	55	60	52	32	26	25	11
1921	22	28	35	31	42	49	66	55	57	34	26	24	22
1922	21	19	32	38	44	61	62	54	55	39	23	28	19
1923	26	19	26	28	41	55	62	60	51	37	23	26	19
1924	10	23	25	30	45	58	59	60	47	34	26	21	10
1925	23	26	20	37	41	58	62	57	59	32	24	11	11
1926	19	22	19	30	42	53	56	61	56	29	25	16	16
1927	11	29	21	32	44	57	59	50	47	41	26	19	11
1928	12	24	28	32	43	52	62	62	46	36	24	22	12
1929	23	23	26	35	46	49	59	54	46	37	19	14	14
1930	20	23	21	36	44	46	63	53	53	27	19	21	19
1931	19	22	24	35	41	50	67	56	45	31	26	23	19
1932	25	26	18	35	45	50	54	59	47	34	23	21	18
1933	25	17	23	35	49	46	50	62	48	33	18	16	16
1934	6	7	21	33	45	59	64	52	54	31	23	18	6
1935	13	20	25	35	47	56	64	54	49	32	22	13	13
1936	13	4	34	27	47	51	59	58	52	34	19	26	4
1937	35	21	22	34	42	60	60	60	49	30	20	17	17
1938	14	27	20	35	49	49	58	62	47	36	19	23	14
1939	19	19	27	32	37	65	61	57	51	32	22	20	19
1940	10	17	24	30	38	57	60	57	48	33	22	19	10
1941	20	19	19	42	39	54	66	60	51	38	22	22	19
1942	9	16	26	33	47	57	65	52	42	33	25	13	9
1943	17	14	16	28	44	66	61	55	45	32	23	10	10
1944	19	19	27	30	46	54	58	56	51	29	26	14	14
1945	22	15	33	39	42	50	61	54	59	38	23	17	15

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
Max.	35	29	35	42	49	66	67	62	59	41	26	28	22
Min.	6	4	16	27	37	46	50	50	42	27	18	10	4
Mean	18	20	24	33	44	54	61	57	50	34	23	19	14

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
Max.	35	29	36	42	51	66	68	69	59	48	34	28	22
Min.	5	1	16	26	37	46	50	50	35	26	15	4	1
Mean	18	18	26	33	44	55	60	58	49	34	24	19	14

Precipitation in Mount Airy, Surry County, North Carolina:  
Monthly and annual (in inches and hundredths)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1889	4.60	4.10	2.10	3.41	5.10	4.53	10.38	5.14	5.01	1.16	4.48	0.92	50.93
1890	1.49	5.33	4.74	1.91	6.32	1.72	8.75	6.81	6.79	4.33	.17	4.17	52.53
1891	5.56	5.31	6.51	4.20	6.48	2.66	5.47	7.23	1.12	1.04	2.43	4.88	52.89
1892	5.09	1.30	1.86	2.65	3.50	4.45	4.67	6.01	4.20	.28	4.89	1.52	40.42
1893	2.32	5.06	1.43	2.69	5.05	5.64	2.12	6.21	5.84	5.96	2.00	1.44	45.76
1894	2.78	4.87	.86	2.15	2.22	2.01	3.36	.83	1.07	3.27	1.12	3.85	28.39
1895	5.65	1.28	4.75	5.37	3.67	4.99	4.28	5.27	.70	1.40	2.66	4.09	44.11
1896	1.96	4.66	5.01	.94	1.60	6.85	7.89	3.27	7.91	.45	7.05	1.22	48.81
1897	2.57	6.93	5.12	3.45	3.89	3.19	5.06	3.47	1.23	5.01	2.26	3.32	45.50
1898	3.47	.40	2.60	2.65	3.89	3.49	7.19	7.17	8.09	5.52	1.94	3.24	49.65
1899	4.18	6.05	9.62	3.42	3.42	6.44	3.72	4.05	4.37	2.26	1.94	.92	50.39
1900	2.35	4.00	3.50	3.67	1.02	8.56	3.52	2.50	4.12	4.04	3.10	3.38	43.76
1901	3.53	1.26	3.45	6.60	6.08	8.69	4.78	16.59	3.82	1.00	1.41	8.89	66.10
1902	2.96	3.01	4.16	1.54	2.27	3.55	2.42	4.12	5.35	3.63	4.27	4.16	41.44
1903	5.17	6.94	7.53	4.04	1.31	2.13	3.40	4.51	2.00	0.54	1.27	1.77	40.61
1904	1.55	2.59	3.56	1.71	2.42	6.45	3.80	4.92	.73	.13	1.94	3.00	32.80
1905	3.70	4.90	1.58	3.95	7.32	4.12	15.92	5.97	1.05	3.85	.30	6.88	59.54
1906	5.96	1.55	4.28	3.44	2.01	3.72	9.63	11.68	4.05	4.30	3.18	3.52	57.32
1907	.40	1.95	2.79	3.39	2.40	7.79	3.73	6.86	6.90	.91	4.54	6.32	47.98
1908	2.57	6.26	3.51	3.65	3.46	6.25	8.21	8.11	2.06	4.73	1.63	4.48	54.92
1909	2.41	3.45	3.59	4.20	5.57	4.78	4.16	2.83	2.45	1.45	.55	3.53	38.97
1910	3.67	4.58	1.01	3.93	3.11	8.83	6.09	3.63	2.54	5.03	1.02	3.45	46.89
1911	3.52	1.98	3.37	5.05	1.53	3.58	2.85	6.09	3.47	5.68	3.82	4.68	45.62
1912	2.11	3.54	7.83	3.56	7.91	3.33	6.33	2.92	6.68	1.85	3.11	2.64	51.81
1913	3.46	2.36	7.13	2.81	7.40	2.69	6.33	8.72	3.87	4.43	3.00	4.50	56.70
1914	3.30	3.64	2.24	3.02	1.65	1.07	2.29	4.81	1.29	3.59	2.28	5.96	35.14
1915	6.77	5.26	2.06	.75	3.32	3.69	2.07	7.57	4.06	4.03	2.05	6.18	47.81
1916	2.29	3.85	.97	1.45	4.84	3.89	9.85	4.07	2.38	3.77	1.24	2.16	40.76
1917	3.32	2.53	5.42	3.75	3.19	5.24	9.83	2.65	3.11	4.57	.67	1.23	45.51
1918	5.41	.59	2.03	4.85	3.62	3.55	3.41	3.97	4.22	4.75	2.28	6.71	47.39
1919	6.42	3.64	5.05	3.71	7.06	5.72	5.68	2.00	.40	3.64	2.61	2.71	48.64
1920	1.50	2.67	5.06	4.89	2.00	7.01	5.60	5.55	6.13	.70	7.35	4.93	53.39
1921	4.95	4.00	1.44	5.41	3.83	5.13	6.47	1.67	2.92	5.85	2.89	1.53	46.09
1922	3.68	5.29	8.89	3.20	7.90	9.79	8.30	1.81	1.30	5.10	.40	3.30	50.96
1923	3.36	2.60	6.97	2.83	4.80	2.21	2.00	7.80	3.70	.96	3.96	2.74	43.93
1924	3.84	3.14	2.67	3.66	4.30	3.32	5.95	3.75	7.58	1.67	1.47	5.05	47.20
1925	4.43	2.24	2.20	3.47	3.00	3.65	1.47	2.66	3.73	3.77	2.72	1.25	34.59
1926	4.74	3.45	2.98	2.65	2.54	2.36	5.49	1.94	2.49	2.82	4.90	4.88	41.74
1927	1.39	5.38	2.43	3.00	2.18	2.34	5.34	1.81	1.14	3.25	1.50	7.32	37.08
1928	1.43	2.56	3.76	4.90	5.22	4.58	1.35	9.82	9.65	3.18	1.24	.95	48.64
1929	2.52	5.14	5.28	3.69	4.27	8.03	4.15	5.10	2.33	12.30	3.33	2.31	58.45
1930	1.90	.67	1.68	1.49	2.20	2.57	.72	2.26	1.33	1.37	2.12	4.38	22.69
1931	1.49	1.65	4.23	3.95	4.39	2.30	8.86	6.85	1.66	1.36	0.40	4.52	41.66
1932	5.50	2.14	5.85	2.63	3.24	3.20	1.43	2.26	3.29	8.63	6.79	5.71	50.67
1933	1.63	3.39	2.85	3.09	3.53	0.92	5.22	3.04	0.94	2.17	0.71	2.43	29.92
1934	1.77	2.63	7.70	4.46	2.65	3.72	5.22	3.32	5.95	3.58	5.27	2.39	48.56
1935	5.63	2.89	5.28	2.79	3.46	3.61	7.71	1.78	3.21	2.50	3.03	1.46	43.35
1936	9.17	4.30	4.87	4.40	1.15	4.31	3.94	2.41	6.05	3.57	1.58	7.18	52.93
1937	8.56	3.00	1.39	4.77	3.92	2.66	3.09	9.43	2.07	12.13	1.94	1.97	54.93
1938	2.85	0.99	2.28	1.96	6.00	5.04	6.12	2.78	1.75	0.84	5.85	2.54	39.00
1939	3.73	9.34	2.93	3.10	1.13	5.43	10.58	8.80	.00	2.08	1.56	2.95	51.65
1940	1.89	2.16	3.53	6.17	4.07	3.47	7.83	9.57	3.28	1.56	3.56	2.41	49.50

Precipitation in Mount Airy, Surry County, North Carolina:  
Monthly and annual (in inches and hundredths) continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1941	2.15	1.09	2.78	2.51	1.17	4.13	8.46	4.13	1.23	1.79	2.19	5.19	36.82
1942	2.29	3.01	3.59	1.90	6.85	6.96	6.02	8.52	8.12	4.28	1.65	5.32	58.51
1943	4.50	2.37	5.61	3.21	5.44	3.58	9.13	2.33	1.16	0.53	1.03	2.93	41.82
1944	2.61	6.04	7.79	2.77	4.75	1.96	5.66	2.63	7.51	3.58	3.16	2.99	51.45
1945	2.89	4.32	3.50	4.01	5.62	4.62	7.43	3.07	7.18	2.61	3.80	5.62	54.67
Summary of Period 1921-45													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Max.	9.17	9.34	8.89	6.17	7.90	9.79	10.58	9.82	9.65	12.30	6.79	7.32	58.96
Min.	1.39	.67	1.39	1.49	1.13	.92	.72	1.67	.00	.53	.40	.95	22.69
Mean	3.56	3.35	4.10	3.44	3.90	4.00	5.52	4.38	3.58	3.66	2.68	3.60	45.77
Summary of Record													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Max.	9.17	9.34	9.62	6.60	7.91	9.79	15.92	16.59	9.65	12.30	7.35	8.89	66.10
Min.	.40	.40	.86	.94	1.02	.92	.72	.83	.00	.13	.17	.92	22.69
Mean	3.53	3.50	3.99	3.38	3.90	4.39	5.63	5.00	3.62	3.31	2.62	3.70	46.61

Average Temperature - Mount Airy, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1889	----	----	----	----	----	69.2	73.4	71.2	66.2	53.6	47.6	48.2	-----
1890	46.7	47.6	43.6	55.4	64.5	75.4	74.4	71.0	69.0	55.4	49.0	37.0	57.4
1891	37.6	43.4	41.1	55.9	61.4	72.5	73.1	72.6	68.3	52.6	42.4	42.2	55.3
1892	34.8	41.0	43.6	53.2	63.4	73.9	75.2	74.0	64.0	54.3	43.4	37.4	54.8
1893	27.0	40.3	45.1	56.6	62.4	71.0	76.3	72.8	66.8	56.4	44.1	39.6	54.9
1894	41.3	40.0	50.6	54.4	64.9	72.2	74.8	72.9	70.2	56.4	43.7	39.2	56.7
1895	34.1	28.2	44.6	55.0	62.2	71.8	73.4	73.0	71.3	50.8	49.6	38.2	54.4
1896	35.8	38.7	43.4	60.6	70.4	70.8	74.8	74.8	67.2	54.6	51.4	37.4	56.7
1897	33.2	41.6	49.2	54.6	61.4	72.6	75.0	72.4	67.2	59.6	45.8	39.7	56.0
1898	39.6	36.2	50.6	51.8	66.4	72.0	75.4	75.0	69.2	56.6	43.0	38.2	56.2
1899	36.2	32.8	45.8	54.0	65.7	73.4	74.0	75.2	66.0	57.8	47.2	35.8	55.3
1900	37.0	35.6	42.6	55.8	62.4	70.0	76.6	77.6	71.7	61.9	48.7	38.8	56.6
1901	37.6	36.0	46.9	52.0	65.0	71.8	77.6	73.7	66.6	56.6	41.2	34.1	54.9
1902	34.8	34.7	47.6	53.7	68.4	70.8	75.8	73.4	65.6	58.0	52.2	38.2	56.1
1903	36.4	42.3	53.0	58.1	66.3	69.0	75.2	74.4	67.0	58.0	42.8	33.8	56.4
1904	31.4	34.3	45.8	48.8	63.6	71.8	75.4	74.2	68.7	55.8	47.2	----	----
1905	----	----	49.5	56.0	66.2	73.7	75.3	73.0	70.4	57.1	46.7	38.2	----
1906	40.6	37.4	40.6	57.0	64.0	73.4	73.8	76.9	72.0	55.8	46.7	39.5	56.5
1907	44.8	36.8	52.2	49.2	62.3	67.4	76.1	73.6	70.2	53.9	45.4	40.7	56.0
1908	35.6	34.4	51.7	59.4	64.8	71.3	76.0	73.1	66.4	56.6	48.4	41.2	56.6
1909	42.2	44.6	44.0	53.6	58.0	69.6	68.1	68.7	67.0	54.0	51.4	35.5	54.7
1910	36.4	35.9	53.8	57.2	61.6	68.2	75.6	72.4	70.6	61.6	44.0	34.2	56.0
1911	41.2	44.3	45.4	52.0	67.3	75.7	76.4	77.2	73.8	60.4	43.6	42.4	58.3
1912	31.6	36.5	45.2	58.6	66.0	71.3	74.8	73.8	72.4	59.6	46.7	40.8	56.4
1913	44.2	41.2	50.4	57.1	66.8	73.2	76.8	74.0	65.9	58.3	----	----	----
1914	40.2	34.3	41.1	55.5	66.2	77.6	75.9	75.6	66.1	60.4	44.2	36.1	56.1
1915	36.6	41.4	39.0	57.4	66.8	71.8	75.4	74.5	70.0	60.0	46.8	38.0	56.5

## Average Temperature - Mount Airy, N. C. Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1916	42.6	38.3	46.0	54.3	67.8	70.4	75.1	74.6	----	----	46.8	37.8	-----
1917	40.9	38.8	47.3	58.6	60.8	71.7	75.2	74.4	65.8	51.6	44.0	29.4	54.9
1918	27.6	42.6	51.5	53.0	68.4	70.2	70.1	76.0	62.5	55.4	45.8	42.2	55.4
1919	40.0	38.0	49.8	54.8	63.0	70.5	76.7	74.0	70.2	66.6	49.5	37.4	57.5
1920	36.6	36.7	44.8	53.0	60.1	68.8	75.0	73.2	71.0	61.2	45.6	37.6	55.3
1921	38.0	40.8	55.0	58.0	62.5	73.4	----	73.0	74.6	57.4	51.8	43.4	----
1922	36.8	45.2	50.2	59.9	65.2	72.9	----	72.0	----	----	----	----	----
1923	39.3	----	----	----	----	74.2	----	----	----	----	----	46.0	----
1924	37.1	37.8	44.6	54.9	60.8	73.6	73.0	75.2	64.8	56.2	45.5	38.2	55.1
1925	36.2	44.7	48.6	58.0	59.6	73.4	75.6	71.6	73.6	53.8	42.8	37.4	56.3
1926	35.2	41.1	39.8	52.8	64.2	69.4	74.8	75.5	72.0	58.2	42.4	38.2	55.3
1927	38.4	47.2	49.1	56.9	65.3	69.2	74.1	70.9	69.8	59.0	50.8	39.6	57.5
1928	37.4	40.1	48.0	53.6	63.3	70.8	77.2	77.4	66.9	60.0	47.6	40.6	56.9
1929	38.9	38.4	52.7	58.9	64.8	72.0	74.7	73.4	68.9	55.2	48.8	39.6	57.2
1930	40.1	44.4	45.8	57.0	67.6	71.4	78.2	72.8	72.6	54.0	44.6	33.0	56.8
1931	38.8	41.0	42.9	54.5	62.6	72.8	78.3	73.0	72.0	59.0	52.2	46.0	57.8
1932	46.2	46.4	43.0	55.6	63.2	72.2	78.0	74.5	68.4	58.0	45.4	40.6	57.6
1933	44.0	40.4	46.6	55.8	68.9	74.2	75.1	74.4	73.8	56.8	46.0	43.8	58.3
1934	41.5	33.6	43.6	55.9	65.6	74.6	78.3	74.4	70.4	57.1	48.6	38.4	56.8
1935	37.4	39.1	50.6	54.6	62.5	70.8	75.2	73.9	67.8	56.8	49.6	31.1	55.8
1936	32.4	34.0	49.9	55.4	67.5	73.0	77.9	76.8	71.3	60.7	46.0	41.2	57.2
1937	47.4	40.4	45.9	55.8	64.2	74.6	74.8	76.0	66.9	55.1	45.2	39.0	57.1
1938	38.2	45.3	53.0	56.8	65.6	71.1	76.2	76.8	69.8	58.8	50.5	39.4	58.5
1939	40.6	44.8	50.3	55.0	65.7	76.8	75.4	75.4	72.2	61.0	45.6	41.4	58.7
1940	28.2	40.2	44.9	54.8	63.7	76.3	74.5	74.2	66.7	58.4	47.2	43.2	56.0
1941	38.5	36.2	42.1	60.9	65.8	71.9	76.6	75.4	70.8	63.0	49.2	43.8	57.8
1942	36.1	37.2	50.5	60.4	66.8	74.2	77.9	74.8	69.8	64.6	52.6	39.1	58.7
1943	41.4	42.1	45.6	54.2	67.1	78.2	76.0	77.9	66.5	57.8	46.6	41.0	57.8
1944	39.4	43.0	46.7	56.2	69.8	75.4	75.4	74.0	70.6	58.8	47.2	34.8	58.0
1945	39.1	41.6	56.7	60.4	62.5	72.7	76.2	75.0	73.6	57.7	49.6	34.7	58.3

## Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Max.	47.4	47.2	56.7	60.9	69.8	78.2	78.3	77.9	74.6	64.6	52.6	46.0	58.7
Min.	28.2	33.6	39.8	52.8	59.6	69.2	73.0	70.9	64.8	53.8	42.4	31.1	55.1
Mean	38.7	41.0	47.8	56.5	64.8	73.2	76.1	74.5	70.2	58.2	47.6	39.7	57.2

## Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Max.	47.4	47.6	56.7	60.9	70.4	78.2	78.3	77.9	74.6	66.6	52.6	48.2	58.7
Min.	27.0	28.2	39.0	48.8	58.0	67.4	68.1	68.7	62.5	50.8	41.2	29.4	54.4
Mean	38.0	39.6	47.1	55.7	64.6	72.3	75.4	74.1	69.1	57.6	46.9	38.9	56.6

Highest Temperature - Mount Airy, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
1889	--	--	--	86	--	90	95	87	87	80	74	72	--
1890	74	74	74	85	88	95	95	90	88	82	76	62	95
1891	68	74	67	85	89	92	88	91	98	83	74	66	98
1892	64	67	70	79	90	93	94	92	84	80	70	67	94
1893	62	65	75	89	88	88	95	95	87	81	73	68	95
1894	61	67	84	84	91	95	93	97	94	83	71	64	97
1895	60	67	83	83	94	98	94	93	94	77	74	65	98
1896	61	65	72	94	93	90	93	97	93	76	74	64	97
1897	63	71	76	84	84	92	95	91	95	86	75	68	95
1898	70	67	82	83	91	93	96	90	88	83	68	62	96
1899	62	66	71	82	88	94	97	95	94	79	70	63	97
1900	62	62	71	80	88	88	97	98	94	84	77	59	98
1901	63	70	71	85	88	92	94	90	88	81	75	66	94
1902	59	66	73	84	91	93	95	92	87	80	75	64	95
1903	62	68	73	83	95	90	94	93	91	82	78	52	95
1904	61	67	76	85	92	96	103	92	93	89	73	--	--
1905	--	--	76	85	88	93	95	93	92	88	77	63	--
1906	66	67	64	88	92	98	96	93	92	82	74	70	98
1907	75	63	90	82	90	91	97	95	95	85	70	65	97
1908	63	61	80	86	90	96	96	97	91	85	74	73	97
1909	74	68	71	85	84	85	90	99	89	83	78	72	99
1910	71	63	86	89	90	92	91	90	92	89	67	62	92
1911	73	71	76	78	98	97	98	96	92	80	69	68	98
1912	58	64	83	81	91	94	92	95	97	89	79	73	97
1913	68	71	75	86	93	96	96	94	89	82	--	--	--
1914	74	65	76	89	95	102	101	98	94	84	76	60	102
1915	59	66	63	93	89	94	102	102	91	86	78	59	102
1916	71	68	80	87	93	92	90	92	90	--	78	70	--
1917	73	76	78	90	94	97	97	95	90	87	71	64	97
1918	50	77	80	81	94	93	95	103	89	86	74	69	103
1919	68	61	76	88	87	91	98	96	100	96	77	71	100
1920	65	62	78	81	86	95	95	90	91	84	82	61	95
1921	64	75	86	89	89	96	--	96	98	87	77	70	--
1922	57	72	80	88	86	93	--	89	--	--	--	--	--
1923	64	--	--	--	--	96	97	--	--	83	--	74	--
1924	64	66	74	86	88	100	94	96	95	85	78	80	100
1925	62	72	80	93	93	96	96	100	99	83	68	63	100
1926	65	70	78	84	93	96	104	96	92	89	67	61	104
1927	72	74	81	90	93	96	94	91	94	87	78	71	96
1928	77	66	83	82	93	96	98	99	94	87	74	65	99
1929	71	68	88	93	90	97	94	96	94	79	82	76	97
1930	73	82	77	94	93	103	102	103	96	82	78	65	103
1931	70	63	65	81	90	98	98	92	96	87	79	75	98
1932	74	80	76	86	87	91	99	100	97	81	75	67	100
1933	68	72	79	85	94	98	95	94	95	88	81	68	98
1934	70	68	77	86	92	97	99	91	88	83	77	68	99
1935	64	67	82	81	85	94	92	93	89	86	80	61	94

Highest Temperature - Mount Airy, N. C.  
Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
1936	61	76	83	90	91	100	102	98	95	79	74	63	102
1937	74	69	73	89	95	94	96	92	91	87	73	66	96
1938	67	72	83	85	90	88	94	95	92	91	78	65	95
1939	71	75	82	83	94	95	92	93	98	92	78	70	98
1940	53	66	76	83	93	94	98	91	93	85	76	67	98
1941	64	63	71	89	97	91	95	95	93	90	79	72	97
1942	68	67	81	90	92	95	98	98	91	87	82	65	98
1943	76	74	79	85	89	96	96	98	94	86	78	73	98
1944	77	77	81	85	92	98	95	95	93	89	73	62	98
1945	57	67	88	89	87	98	96	95	93	82	80	59	98

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
Max.	77	82	88	94	97	103	104	103	99	92	82	80	104
Min.	53	63	65	81	85	88	92	89	88	79	67	59	94
Mean	67	71	79	87	91	96	97	95	94	86	77	68	98

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
Max.	77	82	90	94	98	103	104	103	100	96	82	80	104
Min.	50	61	63	78	84	85	88	87	84	76	67	52	92
Mean	66	69	77	86	91	94	96	95	93	84	75	66	98

Lowest Temperature - Mount Airy, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
1889	--	--	--	--	34	44	57	52	35	26	21	14	--
1890	16	19	18	29	34	42	47	44	44	24	16	14	14
1891	14	13	18	24	28	50	48	56	45	23	10	12	10
1892	10	17	20	22	38	51	48	53	42	26	13	10	10
1893	-15	15	20	27	39	50	54	48	36	22	13	16	-15
1894	15	14	16	25	39	45	52	51	42	30	14	5	5
1895	-7	-1	20	26	36	46	55	48	43	21	22	13	-7
1896	8	3	15	26	45	49	55	46	34	24	24	11	3
1897	1	16	24	26	37	48	52	51	36	32	18	13	1
1898	11	6	25	19	35	49	54	59	45	27	19	7	6
1899	11	-1	11	26	41	48	49	58	35	28	21	2	-1
1900	6	2	8	28	33	51	53	58	49	32	23	18	2
1901	15	10	13	30	41	48	61	57	40	31	16	6	6
1902	10	13	20	31	43	46	53	52	38	29	24	16	10
1903	13	10	23	27	42	49	49	59	38	25	12	10	10
1904	1	3	23	23	37	46	50	51	39	20	18	--	--
1905	--	--	24	23	37	45	55	47	43	25	14	10	--
1906	11	9	16	30	28	53	55	63	50	21	17	10	9
1907	12	11	25	25	32	40	52	50	41	25	18	13	11
1908	12	-4	20	30	35	50	52	45	34	29	17	16	-4
1909	10	12	15	18	27	43	44	41	37	23	18	7	7
1910	10	11	27	33	29	35	54	55	39	23	20	10	10

Lowest Temperature - Mount Airy, N. C.  
Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
1911	15	19	17	25	33	47	49	54	54	30	19	16	15
1912	-1	11	19	28	38	41	53	49	45	31	14	13	-1
1913	17	12	20	30	36	39	50	55	38	26	--	--	--
1914	12	6	8	24	35	51	45	53	36	22	9	6	6
1915	16	15	18	26	41	43	50	54	37	28	21	18	15
1916	8	10	17	30	38	41	52	56	34	28	16	2	2
1917	9	2	18	32	31	40	54	44	36	25	18	-9	-9
1918	-2	9	22	24	33	44	47	44	32	29	21	18	-2
1919	9	16	26	27	40	48	45	45	40	44	20	10	9
1920	3	9	6	27	31	45	51	52	41	21	11	15	3
1921	13	20	22	25	34	47	59	51	50	25	23	21	13
1922	9	14	25	30	35	48	--	48	--	--	--	--	--
1923	22	--	--	--	--	48	59	--	--	--	--	15	--
1924	1	15	22	20	32	44	51	50	37	23	15	3	1
1925	10	13	7	23	29	48	46	42	50	23	14	5	5
1926	7	12	16	20	30	42	45	54	51	24	17	9	7
1927	5	19	20	28	34	45	52	44	35	31	19	9	5
1928	0	13	16	22	34	43	55	57	34	27	18	13	0
1929	11	12	14	28	33	43	47	46	36	24	8	4	4
1930	1	5	10	24	35	37	55	45	41	20	11	-3	-3
1931	7	16	20	31	37	41	53	48	36	27	19	15	7
1932	18	20	14	28	35	48	53	50	40	30	10	6	6
1933	13	7	18	28	42	38	43	53	41	25	10	14	7
1934	3	2	11	27	39	52	62	55	45	22	20	15	2
1935	11	13	17	33	36	45	58	45	38	25	15	2	2
1936	2	-3	21	25	38	42	56	48	39	26	11	8	-3
1937	25	16	16	27	33	55	49	56	42	26	13	14	13
1938	10	19	23	27	42	49	53	54	38	30	15	12	10
1939	12	16	19	26	31	57	52	56	45	25	22	20	12
1940	-2	14	16	27	35	49	51	54	33	31	21	17	-2
1941	11	11	18	30	31	49	58	53	41	29	19	16	11
1942	-6	14	22	23	37	53	58	47	32	30	21	8	-6
1943	10	9	10	21	30	59	59	57	37	26	19	5	5
1944	12	9	13	21	35	48	52	49	41	30	24	10	9
1945	15	12	27	23	35	44	54	45	50	30	22	2	2

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
Max.	25	20	27	33	42	59	62	57	51	31	24	21	13
Min.	-6	-3	7	20	29	37	43	42	32	20	8	-3	-6
Mean	8.8	12	17	26	35	47	53	50	41	26	17	10	4.65

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
Max.	25	20	27	33	45	59	62	63	54	44	24	21	15
Min.	-15	-4	6	18	27	35	43	41	32	20	8	-9	-15
Mean	8.5	11	18	26	35	46	52	51	40	27	17	10	4.55

Precipitation in Rockingham, Richmond County, North Carolina:  
Monthly and annual (in inches and hundredths)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1892	----	----	----	----	----	----	----	----	1.21	0.37	2.56	3.17	-----
1893	1.58	5.61	1.70	2.00	4.80	4.04	7.51	10.16	2.63	3.83	2.44	4.61	50.91
1894	3.42	2.60	1.25	.90	4.26	3.60	7.76	8.88	6.55	6.45	2.45	2.95	51.07
1895	9.35	2.37	6.77	7.35	2.58	4.18	4.84	6.37	3.29	2.61	2.62	6.19	58.52
1896	1.12	5.90	1.88	2.31	3.75	6.24	9.82	4.42	6.36	1.90	3.94	2.29	49.93
1897	1.40	6.55	4.81	2.67	2.40	5.09	4.98	2.98	.70	3.89	.82	3.41	39.70
1898	2.44	1.12	3.26	4.07	3.04	4.26	9.47	7.69	2.33	2.41	4.21	1.55	45.85
1899	4.57	9.80	6.24	3.51	4.56	4.29	4.04	1.20	5.82	8.55	2.20	2.89	57.67
1900	1.94	5.73	2.92	5.11	3.25	8.88	2.03	1.16	1.50	.77	3.48	5.42	42.19
1901	2.18	1.68	3.98	4.61	10.55	11.12	9.41	12.45	7.41	.43	.80	5.45	70.07
1902	3.31	6.47	2.96	1.67	4.33	2.32	2.63	8.61	5.14	2.22	5.51	2.74	47.91
1903	2.91	8.42	3.44	5.12	.44	5.60	6.75	6.13	1.51	5.21	.50	3.01	49.04
1904	2.86	3.52	2.13	1.00	2.13	8.77	7.55	10.10	6.00	4.80	4.60	2.38	55.84
1905	1.59	5.40	2.40	4.50	6.50	1.50	5.50	7.90	2.30	1.50	.40	7.27	46.76
1906	3.22	1.88	5.49	2.20	2.30	6.15	9.61	6.03	2.85	3.80	.55	3.30	47.38
1907	.55	5.10	2.35	4.00	5.75	9.90	4.20	2.89	6.93	.40	5.15	5.80	53.02
1908	4.95	5.20	5.72	3.80	3.60	5.90	5.41	14.38	3.10	6.75	1.48	4.60	64.89
1909	1.55	3.73	1.70	4.54	2.46	6.00	4.16	5.83	2.80	1.27	1.45	2.00	37.49
1910	2.90	6.13	1.08	2.15	3.59	7.36	4.41	6.80	2.79	2.68	.61	3.40	43.90
1911	2.60	.76	3.31	2.44	1.38	3.14	2.43	8.00	3.40	3.74	1.47	6.37	39.04
1912	2.67	4.05	5.56	2.65	4.48	3.70	4.30	4.90	5.60	1.88	1.70	2.75	44.24
1913	3.70	4.68	3.90	2.28	4.60	8.34	7.25	8.14	4.93	3.14	1.42	5.51	57.89
1914	2.50	4.72	3.58	2.23	1.10	7.80	4.41	4.30	2.85	2.65	1.83	5.40	43.37
1915	4.62	2.40	3.05	1.85	5.38	2.22	2.48	5.94	1.49	5.55	2.03	2.15	39.16
1916	2.70	3.75	1.83	1.99	2.27	7.95	9.98	3.32	1.00	2.48	.35	2.64	40.26
1917	4.05	4.38	4.42	5.61	3.20	6.02	8.59	2.47	4.41	1.70	1.95	1.60	48.40
1918	3.70	2.20	1.20	6.25	4.22	1.95	5.20	3.30	4.41	1.38	1.00	3.80	38.61
1919	5.10	3.80	1.73	2.81	3.38	3.17	9.89	5.13	2.22	5.48	.24	2.81	45.76
1920	3.19	4.53	4.29	3.37	.93	6.01	4.26	5.70	4.42	1.06	3.09	4.08	44.93
1921	3.99	4.68	4.06	5.26	4.52	4.50	3.75	1.46	1.31	.82	2.19	1.23	37.77
1922	3.47	6.59	7.67	5.68	3.53	4.75	3.89	8.06	3.26	4.67	1.28	4.46	57.31
1923	2.63	4.17	4.41	3.63	3.53	1.53	4.69	7.04	6.85	1.60	2.49	2.37	44.94
1924	4.12	5.20	2.10	4.50	4.49	8.14	4.27	2.37	8.66	1.25	2.70	4.10	51.90
1925	7.67	1.36	1.48	2.79	2.75	4.82	4.04	1.38	1.07	2.24	2.98	2.54	35.12
1926	5.09	4.21	4.85	1.74	1.15	5.40	5.01	3.99	.27	2.00	3.35	2.77	39.83
1927	1.13	1.91	3.87	1.44	1.59	6.81	6.63	7.14	.74	6.06	1.64	6.65	45.61
1928	1.44	4.47	3.21	5.83	4.84	5.22	3.34	7.78	14.49	1.58	.25	1.65	54.10
1929	3.70	7.19	7.88	3.25	7.39	7.27	2.80	5.59	2.80	7.67	4.27	3.19	63.00
1930	4.19	1.65	2.05	2.01	2.39	5.97	3.28	2.64	3.12	2.81	3.58	4.05	37.74
1931	2.46	1.13	2.68	4.34	6.28	1.37	4.01	10.78	0.66	0.40	0.08	6.53	40.72
1932	4.82	2.50	4.18	3.15	4.01	6.47	3.43	1.38	3.59	6.80	3.53	4.68	48.54
1933	2.61	4.67	1.04	1.91	3.40	1.61	4.96	5.18	1.21	1.29	0.72	0.96	29.56
1934	1.23	2.87	6.34	3.95	4.00	4.13	6.68	6.92	8.83	0.86	5.33	2.63	53.77
1935	3.24	3.89	4.25	3.16	2.53	2.18	4.61	6.78	8.93	1.22	2.74	2.75	46.28
1936	6.73	5.17	7.08	7.14	1.21	5.47	7.34	3.06	4.73	5.75	2.30	5.71	61.69
1937	6.67	4.51	2.49	5.72	1.75	6.42	3.80	7.32	1.42	2.09	1.92	1.74	45.85
1938	2.11	0.76	1.73	4.82	4.19	6.50	13.35	1.70	6.10	1.05	2.85	2.68	47.84
1939	2.86	8.26	3.86	3.89	2.75	4.45	7.36	6.53	1.84	0.74	1.30	2.28	46.12
1940	3.58	3.79	2.36	2.07	3.53	3.42	3.30	10.43	3.24	0.38	6.30	3.16	45.56

Precipitation in Rockingham, Richmond County, North Carolina:  
Monthly and annual (in inches and hundredths) continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1941	1.93	1.60	4.48	3.79	2.95	5.30	6.65	4.13	1.74	1.22	0.40	4.52	38.71
1942	1.93	4.09	7.17	2.04	4.25	4.91	5.52	5.30	3.84	2.69	3.65	3.47	48.86
1943	4.75	0.57	4.51	2.27	2.51	4.26	7.04	1.29	3.42	0.42	1.29	2.98	35.31
1944	4.77	7.35	8.42	6.15	3.38	4.23	7.41	4.85	4.64	3.77	2.67	1.99	59.63
1945	1.76	4.70	1.99	2.66	1.39	6.17	6.20	13.36	16.41	----	2.05	7.87	-----

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Max.	7.67	8.26	8.42	7.14	7.39	8.14	13.35	13.36	16.41	7.67	6.30	7.87	63.00
Min.	1.13	.57	1.04	1.44	1.15	1.37	2.80	1.29	.27	.38	.08	.96	29.56
Mean	3.56	3.89	4.17	3.73	3.37	4.85	5.33	5.46	4.53	2.47	2.47	3.48	46.49

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Max.	9.35	9.80	8.42	7.35	10.55	11.12	13.35	14.38	16.41	8.55	6.30	7.87	70.07
Min.	.55	.57	1.04	.90	.44	1.37	2.03	1.16	.27	.37	.08	.96	29.56
Mean	3.31	4.15	3.72	3.51	3.50	5.22	5.70	5.88	4.06	2.80	2.27	3.64	47.49

Average Temperature - Rockingham, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1892	----	----	----	----	----	----	----	----	72.6	62.8	50.6	44.4	-----
1893	35.7	51.8	----	68.1	70.0	77.1	82.0	77.2	71.5	59.6	48.2	44.3	-----
1894	45.3	46.4	57.9	63.6	73.2	77.2	78.8	77.4	74.8	61.3	50.4	47.2	62.8
1895	44.1	36.8	52.8	61.2	67.9	77.7	79.4	80.2	77.0	58.5	52.7	45.0	61.1
1896	42.9	46.8	52.5	67.0	76.1	76.8	81.0	80.6	75.0	62.5	57.6	41.7	63.4
1897	41.0	48.4	55.0	61.3	68.5	78.4	80.4	78.0	74.6	64.5	53.0	46.2	62.4
1898	46.7	42.0	58.6	56.1	73.3	79.4	80.7	79.4	74.4	61.6	48.8	----	-----
1899	41.7	38.6	53.4	58.4	71.4	78.7	79.3	81.6	81.6	62.2	51.0	40.2	60.7
1900	42.4	42.3	49.3	60.5	70.0	77.1	81.7	83.2	76.4	66.0	53.2	42.2	62.0
1901	41.5	39.4	51.6	53.6	69.8	75.3	80.1	78.4	72.2	59.1	46.5	41.2	59.1
1902	39.0	36.6	51.7	59.2	71.8	76.4	80.6	76.8	70.8	62.9	57.7	44.6	60.7
1903	42.5	47.7	60.6	60.0	70.9	73.3	80.6	79.4	71.4	60.7	49.2	38.3	61.2
1904	38.4	40.5	54.2	58.4	71.2	77.4	78.9	----	71.6	59.3	48.3	41.8	-----
1905	35.5	36.8	----	----	----	----	----	----	----	----	----	43.9	-----
1906	47.6	44.8	49.8	66.4	71.0	78.6	78.0	80.1	75.8	60.7	52.2	46.4	62.6
1907	50.8	44.2	61.2	----	----	----	----	80.8	76.5	61.4	53.2	46.8	-----
1908	43.2	----	61.9	----	----	79.4	----	80.0	73.8	63.0	56.4	49.2	-----
1909	48.4	53.0	54.3	----	69.0	78.7	77.0	75.3	69.0	57.8	56.6	39.8	-----
1910	43.3	43.8	59.2	61.4	68.4	74.6	79.6	78.0	73.8	64.6	46.4	39.0	61.0
1911	45.8	47.8	50.6	59.2	72.2	80.6	80.8	----	----	63.8	47.4	46.5	-----
1912	35.4	36.2	51.8	61.9	71.8	75.2	----	78.7	----	62.2	47.2	45.1	-----
1913	50.6	46.8	54.9	59.4	70.7	74.8	81.1	77.4	69.8	62.4	51.4	----	-----
1914	----	39.6	47.6	61.6	70.4	78.3	79.4	----	69.7	62.9	48.1	41.8	-----
1915	41.7	----	43.4	61.0	70.9	73.5	81.0	78.4	75.2	65.0	53.4	40.8	-----
1916	----	45.1	50.0	59.2	73.2	74.2	78.2	79.0	71.6	62.2	53.6	42.6	-----
1917	46.6	44.8	51.4	63.6	65.3	76.0	79.6	78.0	70.0	58.2	47.7	----	-----
1918	35.5	50.2	57.3	58.4	72.4	75.4	----	----	68.8	65.8	53.2	----	-----
1919	----	----	54.6	60.4	71.0	76.6	78.3	77.9	72.4	71.8	54.4	42.8	-----
1920	41.9	40.5	50.9	60.0	65.8	76.2	78.2	77.8	75.4	63.4	50.3	44.2	60.4

Average Temperature - Rockingham, N. C.  
Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1921	43.6	46.2	61.0	62.6	66.8	78.2	80.1	77.8	80.4	62.1	55.7	47.2	63.5
1922	41.9	49.6	54.4	62.7	70.6	78.3	80.0	75.8	74.5	62.6	51.3	46.5	62.4
1923	45.2	41.8	53.2	58.4	67.8	77.2	78.8	78.1	74.0	60.7	49.0	49.4	61.1
1924	41.1	40.2	47.8	58.8	67.8	77.2	77.2	79.4	68.7	60.2	51.3	44.2	59.5
1925	40.6	48.6	52.9	63.6	66.1	79.0	80.9	78.6	80.2	60.8	48.6	40.3	61.7
1926	40.4	45.6	44.6	57.8	69.0	75.8	79.8	80.0	76.8	63.2	47.3	44.3	60.4
1927	41.6	53.0	51.9	60.8	70.2	73.6	77.9	74.1	73.6	63.3	54.0	42.9	61.4
1928	40.4	43.4	50.8	59.2	67.9	77.0	81.8	81.0	70.9	65.8	52.3	44.9	61.3
1929	44.6	43.2	57.1	63.8	70.0	75.2	79.0	78.2	72.8	59.9	53.6	44.4	61.8
1930	44.4	49.4	49.0	60.8	71.6	75.4	81.0	76.6	77.0	58.0	49.2	39.7	61.0
1931	41.0	44.0	46.6	59.4	69.2	80.0	83.4	77.9	74.7	62.0	54.4	48.9	61.8
1932	50.0	51.6	50.0	60.8	69.4	78.4	82.3	79.2	72.4	63.0	50.2	46.9	62.8
1933	49.6	45.5	52.4	60.8	74.8	79.7	79.4	78.8	77.7	62.9	49.5	48.6	63.3
1934	44.4	36.3	48.8	61.4	68.4	78.4	81.4	78.4	74.4	60.2	52.4	41.8	60.5
1935	42.6	43.8	56.3	59.4	68.0	77.2	80.2	79.8	72.5	61.5	54.0	35.2	60.9
1936	38.2	40.0	54.7	57.5	71.3	76.0	80.4	78.8	74.2	63.2	48.7	44.4	60.6
1937	51.2	43.4	49.4	59.5	69.8	77.6	79.0	79.0	70.4	59.0	49.2	41.3	60.7
1938	42.4	49.6	58.0	61.9	70.5	74.2	77.8	80.3	72.2	60.3	54.2	42.8	62.0
1939	44.4	50.4	55.2	60.4	69.0	80.6	79.4	78.2	74.6	63.0	46.4	43.2	62.1
1940	32.0	44.6	50.0	59.8	67.9	78.4	79.2	77.8	70.8	61.0	51.2	46.0	59.9
1941	42.2	38.4	45.4	63.2	70.6	76.0	79.4	78.3	75.8	68.4	50.4	44.3	61.0
1942	40.2	37.8	52.0	62.0	69.5	77.0	79.4	76.1	73.5	61.6	52.8	39.8	60.1
1943	42.0	44.3	49.2	58.0	70.6	79.2	77.6	77.4	68.6	58.6	48.8	42.0	59.7
1944	41.0	46.2	50.0	58.8	71.0	80.0	77.8	76.3	74.3	61.0	50.6	41.4	60.7
1945	43.9	47.4	60.8	64.4	66.6	78.2	79.4	77.2	76.0	----	52.9	38.3	----

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Max.	51.2	53.0	61.0	64.4	74.8	80.6	83.4	81.0	80.4	68.4	55.7	49.4	63.5
Min.	32.0	36.3	44.6	57.5	66.1	73.6	77.2	74.1	68.6	58.0	46.4	35.2	59.5
Mean	42.8	45.0	52.1	60.6	69.4	77.5	79.7	78.1	74.0	61.8	51.1	43.5	61.3

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Max.	51.2	53.0	61.9	68.1	76.1	80.6	83.4	83.2	80.4	71.8	57.7	49.4	63.5
Min.	32.0	36.2	43.4	53.6	65.3	73.3	77.0	74.1	68.6	57.8	46.4	35.2	59.1
Mean	42.7	44.3	52.9	60.7	70.0	77.2	79.7	78.5	73.5	62.1	51.3	43.5	61.3

Highest Temperature - Pockingham, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
1892	--	--	--	--	--	--	--	--	90	91	84	74	---
1893	76	79	82	95	100	102	101	91	90	82	73	73	102
1894	70	73	88	98	100	100	98	99	96	88	79	77	100
1895	75	72	83	88	96	101	99	97	99	88	80	74	101
1896	67	74	82	97	99	96	102	103	100	82	80	67	103
1897	63	80	81	89	92	100	102	99	100	91	77	73	102
1898	76	74	89	86	102	102	101	95	94	90	74	--	102
1899	75	75	79	87	97	102	102	102	99	80	71	71	102
1900	66	70	74	87	92	96	101	103	98	88	79	69	103
1901	74	72	77	77	93	95	95	90	94	89	76	73	95
1902	67	70	80	85	93	96	103	95	90	83	82	73	103
1903	73	75	83	89	98	93	100	98	90	86	87	64	100
1904	72	82	85	85	94	100	98	--	95	90	71	76	100
1905	69	60	--	--	--	--	--	--	--	--	76	69	---
1906	76	71	79	91	97	99	97	97	94	85	80	73	99
1907	82	71	95	86	90	94	--	98	95	86	75	71	---
1908	68	--	85	--	--	104	--	98	92	88	83	78	104
1909	80	75	81	88	91	95	95	98	91	84	80	71	98
1910	74	75	91	90	92	93	94	95	93	91	76	70	95
1911	76	80	80	88	99	102	100	--	--	94	73	72	102
1912	68	75	87	87	94	97	--	97	--	88	78	71	---
1913	73	75	81	85	93	95	100	94	90	85	79	71	100
1914	--	70	82	93	100	100	102	--	92	83	78	70	102
1915	67	--	73	90	91	94	101	100	96	86	79	72	101
1916	--	74	81	92	100	91	94	94	92	87	80	75	100
1917	78	79	78	94	94	99	96	98	94	87	78	68	99
1918	65	80	85	88	95	100	--	104	95	90	80	--	---
1919	--	--	77	91	93	98	96	98	94	96	84	79	98
1920	74	70	84	91	89	98	96	96	96	90	83	67	98
1921	77	77	88	89	91	98	97	100	102	88	85	73	102
1922	75	78	84	91	93	97	98	93	95	91	80	72	98
1923	75	79	82	91	89	97	97	97	93	85	73	76	97
1924	71	71	79	88	92	101	98	100	98	88	84	80	101
1925	69	76	87	99	96	100	102	107	108	93	80	71	108
1926	72	74	81	88	102	104	108	98	98	93	80	76	108
1927	79	82	88	91	99	101	97	97	101	93	83	81	101
1928	81	72	83	82	93	102	97	99	94	88	77	70	102
1929	74	74	90	92	91	99	98	97	95	83	83	75	99
1930	77	85	76	94	93	101	104	102	99	87	80	69	104
1931	73	73	75	85	92	104	105	101	101	95	85	82	105
1932	78	82	84	87	94	96	105	104	103	84	73	75	105
1933	76	77	86	85	98	105	102	99	98	92	82	77	105
1934	74	71	82	89	94	99	102	97	92	90	82	64	102
1935	76	73	89	88	92	99	100	103	95	86	77	65	103
1936	70	79	87	90	96	100	99	97	93	84	78	70	100
1937	77	78	79	87	93	96	101	94	94	86	75	71	101
1938	75	80	86	88	96	92	97	99	93	87	73	71	99
1939	72	78	86	87	93	98	96	95	98	88	73	72	98
1940	62	70	79	87	96	98	103	96	96	90	81	76	103

Highest Temperature - Rockingham, N. C.  
Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
1941	74	65	73	92	99	94	98	97	100	95	76	76	100
1942	72	65	82	90	90	96	99	98	97	84	81	76	99
1943	76	79	80	90	92	102	97	101	97	88	78	79	102
1944	79	76	84	85	93	103	100	95	100	--	75	65	103
1945	67	80	91	91	95	101	98	94	95	--	89	63	101

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
Max.	81	85	91	99	102	105	108	107	103	95	89	82	108
Min.	62	65	73	82	89	92	96	93	92	83	73	63	97
Mean	74	76	83	89	94	99	100	98	97	89	80	73	102

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
Max.	82	85	95	99	102	105	108	107	103	96	89	82	108
Min.	62	60	73	82	89	91	94	90	90	82	71	63	95
Mean	73	75	83	89	95	99	99	98	96	88	79	72	101

Lowest Temperature - Rockingham, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
1892	--	--	--	--	--	--	--	--	46	30	17	7	--
1893	-2	28	--	42	41	56	63	61	47	30	20	20	--
1894	23	19	20	35	44	45	56	59	53	34	23	9	9
1895	4	6	25	34	38	52	59	58	51	34	24	18	4
1896	15	8	24	35	49	57	64	54	42	34	30	11	8
1897	10	23	30	35	46	60	60	60	48	40	28	23	10
1898	16	10	28	29	41	54	60	66	54	34	21	11	10
1899	17	-15	20	30	46	50	55	66	41	36	30	12	-15
1900	10	9	23	28	42	53	59	62	51	38	27	22	9
1901	23	7	17	24	49	54	61	65	49	31	17	11	7
1902	14	17	21	30	47	56	61	58	46	34	29	16	14
1903	17	19	33	31	50	50	63	64	45	30	14	16	14
1904	12	19	26	29	47	53	62	--	45	33	22	23	--
1905	4	12	--	--	--	--	--	--	--	--	31	20	--
1906	17	17	22	40	40	62	65	66	56	27	20	10	10
1907	20	22	31	28	48	--	--	59	54	30	22	18	--
1908	21	--	30	--	--	64	--	61	50	39	26	23	--
1909	17	20	31	36	42	60	48	48	36	27	22	11	11
1910	13	17	31	34	40	45	60	62	44	25	23	14	13
1911	19	21	26	31	40	58	59	--	--	43	23	20	--
1912	6	4	24	32	47	50	--	56	--	33	21	20	--
1913	24	22	25	33	41	50	62	63	43	34	24	19	19
1914	--	13	20	32	45	58	58	--	44	29	18	15	--
1915	21	--	22	28	50	54	60	62	48	35	24	20	20
1916	--	19	21	33	47	56	61	62	44	36	23	15	--
1917	17	10	24	33	40	54	66	49	45	30	20	5	5
1918	4	17	26	34	40	51	--	56	43	36	29	--	--
1919	--	--	32	28	50	52	54	57	50	49	21	18	--
1920	9	17	15	30	43	53	55	61	48	31	20	21	9

Lowest Temperature - Rockingham, N. C.  
Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
1921	20	25	31	31	40	51	65	57	56	29	23	23	20
1922	17	17	28	38	43	56	62	52	53	36	19	25	17
1923	22	14	22	26	38	53	58	56	49	34	20	22	14
1924	6	18	21	25	44	54	55	53	42	27	22	14	6
1925	18	18	16	30	38	56	56	51	54	25	18	5	5
1926	13	16	14	26	39	52	52	61	54	25	18	12	12
1927	7	24	7	27	37	52	56	52	40	35	21	12	7
1928	4	18	25	32	41	52	62	64	44	35	20	19	4
1929	18	23	23	34	45	49	59	54	44	34	16	13	13
1930	15	20	17	31	43	42	62	51	50	25	16	15	15
1931	14	19	22	34	40	53	67	54	37	24	22	17	14
1932	25	22	17	34	46	55	56	56	42	34	20	18	17
1933	21	15	22	38	49	46	49	60	46	32	17	17	15
1934	6	8	20	31	44	58	67	52	52	27	20	14	6
1935	8	15	20	31	42	52	62	54	45	31	18	7	7
1936	10	0	32	26	46	48	56	55	47	30	17	22	0
1937	32	20	18	31	41	59	56	58	45	28	17	16	16
1938	12	26	21	32	47	51	58	62	45	36	17	19	12
1939	17	17	25	32	37	66	63	58	49	30	20	20	17
1940	5	20	20	29	37	58	58	57	47	33	23	17	5
1941	17	14	18	38	38	55	65	52	47	36	19	18	14
1942	4	11	20	26	42	56	64	49	38	29	18	10	4
1943	12	7	8	22	35	62	57	50	39	24	21	9	7
1944	15	15	21	29	42	56	57	55	53	29	21	14	14
1945	19	14	32	35	41	52	62	53	57	--	18	12	--

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
Max.	32	26	32	38	49	66	67	64	57	36	23	25	20
Min.	4	0	7	22	35	42	49	49	37	24	16	5	0
Mean	14	17	21	31	41	54	59	55	47	30	19	16	11

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
Max.	32	28	33	42	50	66	67	66	57	49	31	25	20
Min.	-2	-15	7	22	35	42	48	48	36	24	14	5	-15
Mean	14	16	23	31	43	54	59	57	47	32	21	16	10

Precipitation in Salisbury, Rowan County, North Carolina:  
Monthly and annual (in inches and hundredths)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1876	4.51	3.41	----	----	----	----	----	----	----	----	----	----	-----
1882	----	----	----	3.99	3.89	1.30	0.56	5.14	1.99	1.24	----	----	-----
1883	----	----	----	----	1.97	11.99	1.43	1.43	3.70	----	----	----	-----
1884	----	----	----	4.67	3.10	5.29	1.85	1.07	.26	.97	----	----	-----
1885	----	----	----	----	6.35	8.60	3.35	3.28	2.54	5.49	----	----	-----
1886	----	----	----	2.15	13.06	6.51	8.57	5.76	.92	.61	----	----	-----
1887	----	----	----	----	7.21	3.80	6.26	16.14	2.43	14.19	----	----	-----
1888	4.38	3.67	7.60	1.34	5.91	.93	1.98	4.26	12.90	4.71	2.09	3.53	53.30
1889	5.90	3.33	3.30	2.85	3.01	5.57	7.25	6.13	3.40	2.18	4.96	.50	48.38
1890	1.06	3.23	2.75	2.16	4.64	1.94	6.06	8.87	7.74	5.58	.13	4.74	48.90
1891	3.49	6.60	9.21	2.47	6.05	5.20	5.52	7.19	.86	1.14	3.41	1.58	52.72
1892	6.63	2.87	3.31	4.01	2.72	4.67	4.72	1.61	2.81	.53	4.00	2.08	39.96
1893	1.93	7.78	1.10	2.03	4.72	5.66	2.07	7.35	4.98	5.89	2.37	1.96	47.84
1894	3.65	4.35	1.32	1.62	3.21	1.84	5.74	3.75	2.97	7.50	1.48	3.87	41.30
1895	5.87	2.06	5.40	5.55	6.85	1.86	3.74	3.48	.92	1.04	2.75	3.96	43.48
1896	2.04	5.93	2.42	1.09	.98	3.91	9.28	2.14	5.63	1.00	4.35	1.50	40.27
1897	2.71	4.61	5.78	2.40	4.73	2.42	7.78	2.49	1.75	2.29	3.85	2.89	43.70
1898	1.86	.93	5.57	2.82	2.46	2.08	3.96	7.07	.94	2.60	3.36	1.92	35.57
1899	2.35	5.66	8.39	4.57	3.36	3.08	7.87	1.94	1.53	3.10	1.34	2.56	45.75
1900	3.22	4.52	5.02	4.98	4.12	4.81	3.52	1.79	1.60	1.90	2.10	6.35	43.93
1901	3.29	1.77	5.22	8.14	6.27	6.58	4.34	9.69	3.32	T	.75	8.08	57.45
1902	2.17	5.98	4.23	2.15	.50	7.85	1.78	4.03	2.44	4.99	2.96	5.53	44.61
1903	3.75	6.27	8.66	5.10	2.17	3.34	1.70	3.23	3.93	1.68	2.06	1.78	43.67
1904	1.86	3.93	2.60	1.27	1.58	5.90	6.26	4.84	1.76	1.42	4.70	3.53	39.65
1905	2.98	5.95	1.33	2.68	7.65	1.35	5.69	7.68	.51	1.51	.61	7.66	45.60
1906	6.99	1.42	5.62	1.79	2.70	7.13	9.08	11.55	3.00	3.33	.81	4.04	57.46
1907	.32	3.29	2.93	5.82	3.13	7.66	3.58	2.14	4.31	.83	5.21	6.18	45.40
1908	5.09	6.02	3.93	3.20	3.20	2.25	7.63	9.65	5.13	6.83	1.97	4.53	59.43
1909	1.64	3.60	3.31	1.82	7.41	8.85	4.04	3.73	3.15	1.39	1.33	2.48	42.75
1910	4.52	2.92	2.61	3.97	3.06	7.15	2.91	3.29	4.96	3.35	.68	3.09	42.51
1911	2.85	1.43	3.89	4.27	1.29	3.32	2.47	6.68	2.72	4.42	3.10	6.31	42.75
1912	4.05	4.19	9.67	4.61	3.40	4.93	5.33	.65	3.06	.85	3.57	1.51	45.82
1913	5.51	3.05	8.82	4.16	5.49	5.38	4.30	5.19	4.72	3.56	2.36	4.45	56.99
1914	2.48	4.68	3.94	5.69	1.81	2.12	1.55	3.18	2.00	3.22	2.20	7.91	40.78
1915	6.58	4.07	4.46	1.47	6.13	6.69	4.44	8.91	1.79	3.95	2.71	3.72	54.92
1916	2.37	5.75	1.74	2.44	6.51	6.27	11.16	6.27	1.32	1.94	.87	2.53	49.17
1917	3.47	4.32	8.77	2.20	2.97	3.70	5.82	4.13	4.78	2.10	.89	1.33	44.48
1918	6.75	1.60	1.98	6.54	2.90	2.61	5.34	1.73	4.39	1.66	3.07	5.29	43.86
1919	5.60	4.64	4.40	3.34	6.13	4.69	8.13	3.36	.19	3.85	.82	2.42	47.57
1920	3.11	4.60	5.80	6.31	2.65	3.09	4.97	8.19	5.00	T	6.07	5.43	55.22
1921	5.55	5.03	1.65	3.94	4.02	.88	2.19	1.03	4.55	2.12	2.98	3.20	37.14
1922	3.88	6.82	6.85	4.75	6.82	3.30	7.51	9.83	.34	5.14	.32	3.37	58.93
1923	4.24	3.81	8.18	4.77	6.76	1.05	3.02	3.22	3.14	1.58	3.14	4.18	47.09
1924	3.66	4.17	3.22	4.59	6.21	2.25	3.46	2.43	9.91	1.00	1.39	3.97	45.96
1925	9.65	2.38	2.65	1.99	3.04	5.44	1.03	4.25	.92	3.43	2.96	2.20	39.94
1926	5.64	4.52	4.57	3.27	1.77	3.20	9.17	4.53	4.03	1.62	4.65	5.55	52.52
1927	1.27	5.00	3.26	2.54	3.95	4.51	5.13	5.21	2.05	6.90	1.75	7.25	48.82
1928	2.21	4.28	4.08	7.01	6.96	8.46	5.15	11.04	14.44	2.13	.57	1.33	67.66
1929	3.55	8.72	7.72	4.37	4.05	6.97	9.54	4.43	3.88	11.46	4.23	3.80	72.72
1930	4.08	1.49	2.25	1.67	1.71	7.07	5.12	4.83	1.85	1.63	3.69	4.95	40.64

Precipitation in Salisbury, Rowan County, North Carolina:  
Monthly and annual (in inches and hundredths) continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	2.15	1.45	4.22	4.90	6.89	1.70	4.10	13.75	1.34	1.03	0.51	8.13	50.17
1932	6.58	2.34	4.66	2.52	1.38	5.66	1.17	4.37	3.79	7.59	5.86	7.53	53.45
1933	2.15	3.40	3.13	2.86	3.34	0.93	3.01	3.57	2.46	2.21	1.45	2.43	30.94
1934	1.83	5.61	5.13	3.10	6.79	1.81	9.48	6.96	6.97	3.93	3.99	2.36	57.99
1935	2.85	3.06	7.90	4.15	3.43	1.95	10.53	2.00	4.94	1.33	3.40	2.20	47.74
1936	10.70	3.66	5.55	7.12	0.11	3.01	7.51	5.83	3.96	7.48	1.49	5.50	61.92
1937	10.13	3.59	2.19	4.47	5.18	4.04	2.41	6.56	1.41	4.37	3.02	2.18	49.55
1938	2.63	1.27	2.59	2.91	4.52	3.89	10.60	2.23	1.88	1.36	4.18	3.98	42.04
1939	4.25	8.58	2.82	2.61	2.42	3.51	4.67	6.31	0.90	2.05	1.23	2.93	42.28
1940	2.48	3.48	2.86	3.34	7.38	1.95	5.25	7.79	1.17	1.60	7.45	2.94	47.69
1941	2.01	1.60	4.26	3.26	0.75	5.25	8.75	0.70	1.97	0.80	0.58	4.15	34.08
1942	2.49	3.93	5.46	1.25	7.73	4.90	3.80	10.63	6.46	3.11	1.95	4.93	56.64
1943	4.82	1.80	5.30	3.80	2.22	9.02	6.95	6.85	4.08	1.00	0.88	3.10	49.82
1944	3.76	5.02	7.31	7.21	2.21	2.40	9.38	2.44	10.31	2.77	3.15	2.80	58.76
1945	2.38	5.47	2.31	3.61	3.40	2.74	6.96	1.45	11.24	2.16	2.42	5.70	49.84

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Max.	10.70	8.72	8.18	7.21	7.73	9.02	10.60	13.75	14.44	11.46	7.45	8.13	72.72
Min.	1.27	1.27	1.65	1.25	0.11	0.88	1.03	.70	0.34	0.80	0.32	1.33	30.94
Mean	4.20	4.02	4.40	3.84	4.12	3.84	5.84	5.29	4.32	3.19	2.69	4.03	49.77

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Max.	10.70	8.72	9.67	8.14	13.06	11.99	11.16	16.14	14.44	14.19	7.45	8.13	72.72
Min.	0.32	0.93	1.10	1.09	0.11	0.88	0.56	0.65	.19	.53	.13	.50	30.94
Mean	3.90	4.05	4.57	3.63	4.19	4.35	5.28	5.18	3.60	3.16	2.59	3.89	48.10

Average Temperature - Salisbury, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1891	42.0	48.9	45.4	62.4	67.2	78.2	77.3	78.9	73.3	57.6	48.6	47.4	60.6
1892	38.0	45.5	48.1	58.5	70.8	79.3	79.0	80.5	70.4	60.2	48.4	40.7	60.0
1893	31.4	43.0	49.6	62.1	68.4	75.5	83.2	77.5	72.7	60.0	48.6	44.2	59.7
1894	45.0	45.1	56.2	59.9	70.7	77.5	78.6	76.5	73.4	61.4	49.4	45.1	61.6
1895	40.0	33.8	50.5	59.9	66.0	78.4	79.8	79.0	76.7	55.4	50.0	40.8	59.2
1896	37.8	41.5	45.8	63.8	75.6	74.2	78.6	80.3	71.6	56.0	55.9	40.9	60.2
1897	38.0	46.8	52.6	59.6	66.6	77.2	79.4	77.0	72.7	63.3	51.8	43.3	60.7
1898	44.4	41.0	54.3	55.6	70.8	78.0	79.0	78.6	73.4	60.6	47.8	41.8	60.4
1899	41.2	37.9	52.1	58.8	71.0	78.0	79.2	80.7	71.2	61.2	52.2	39.8	60.3
1900	40.4	40.0	48.4	60.2	69.6	76.6	81.2	82.6	77.2	64.8	52.2	41.4	61.2
1901	42.5	39.8	51.0	53.4	68.6	73.4	78.0	78.2	71.0	60.4	45.8	37.4	58.3
1902	38.4	36.5	50.6	57.2	73.4	77.3	82.1	78.0	70.2	62.1	56.0	----	----
1903	40.0	47.0	57.7	59.4	69.6	72.8	81.0	79.2	71.0	61.0	47.1	38.2	60.3
1904	39.2	39.1	52.8	60.2	67.3	75.6	76.4	75.6	70.7	57.2	45.9	37.4	58.1
1905	34.6	32.6	53.5	58.4	68.3	75.4	78.1	75.0	73.8	57.6	47.0	37.8	57.7

Average Temperature - Salisbury, N. C.  
Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1906	42.2	40.5	43.6	62.4	67.6	74.8	77.0	79.0	74.2	57.1	50.6	43.2	59.4
1907	48.6	39.6	55.3	52.0	66.5	71.2	78.2	76.4	73.2	----	57.6	56.1	----
1908	----	----	57.4	64.0	----	74.0	78.1	78.3	71.3	58.4	51.4	45.1	----
1909	44.6	48.0	48.7	60.0	66.6	77.2	77.2	75.8	68.8	58.0	----	37.8	----
1910	41.0	41.1	58.4	61.2	66.4	72.8	79.7	77.2	73.8	64.4	46.4	37.6	60.0
1911	45.1	49.0	51.4	56.4	71.6	78.9	79.4	79.7	76.4	63.0	46.8	45.2	61.9
1912	34.8	38.2	49.2	61.3	69.0	73.4	78.0	77.9	76.6	61.8	49.8	44.8	59.6
1913	49.2	44.0	53.5	58.5	69.2	74.8	81.0	77.0	69.0	61.9	51.0	45.0	61.2
1914	44.8	39.9	46.0	61.6	69.2	79.8	78.8	78.5	67.7	62.2	51.6	39.7	60.0
1915	43.2	46.2	44.2	61.4	68.1	72.0	80.0	76.7	73.6	62.8	53.2	40.8	60.2
1916	46.0	44.2	51.2	59.4	72.6	74.9	77.2	78.2	69.8	61.3	52.3	44.0	60.9
1917	45.2	43.1	49.4	63.4	63.8	75.4	78.0	76.9	68.8	57.4	49.2	33.0	58.6
1918	32.5	48.6	55.6	57.7	72.3	75.6	73.8	79.0	66.6	65.4	49.4	45.6	60.2
1919	43.6	42.2	51.6	59.2	68.7	75.8	78.9	75.2	70.0	71.2	52.6	40.1	60.8
1920	39.0	38.7	49.7	59.4	63.6	74.4	76.4	74.3	73.2	62.4	48.6	41.6	58.4
1921	41.3	44.8	60.0	61.0	65.0	77.2	79.0	76.9	77.7	60.5	53.6	46.2	61.9
1922	40.6	48.1	53.0	60.7	69.0	76.8	78.6	74.3	72.4	62.0	49.8	44.9	60.8
1923	42.6	40.9	50.6	----	65.0	77.0	78.4	78.4	73.2	59.7	47.8	49.2	----
1924	38.6	39.6	47.4	57.2	64.8	76.7	76.1	78.6	67.5	59.0	50.0	42.2	58.1
1925	39.7	48.8	52.6	61.6	64.3	79.1	81.0	77.0	79.3	58.6	47.0	40.2	60.8
1926	38.8	45.2	44.7	56.6	68.2	73.8	79.2	80.4	75.4	61.8	45.6	42.2	59.3
1927	40.1	50.2	52.2	59.0	68.7	72.1	76.6	72.7	73.8	62.2	54.1	41.8	60.3
1928	39.8	41.4	48.6	55.0	65.0	74.2	80.2	79.5	67.8	63.4	49.8	41.9	58.9
1929	40.8	40.4	55.0	62.8	67.2	73.8	77.0	76.6	71.0	57.0	49.6	41.8	59.4
1930	42.4	46.5	48.0	59.0	70.3	73.6	80.2	74.6	75.2	54.6	45.7	34.5	58.7
1931	38.3	43.2	44.4	57.2	65.6	76.0	82.0	76.1	74.2	60.6	53.6	48.4	60.0
1932	48.9	49.0	46.8	58.5	67.2	76.6	80.8	77.6	70.6	59.8	45.8	43.6	60.4
1933	47.2	44.6	51.4	59.2	72.8	77.4	77.9	77.4	76.5	61.4	49.6	47.6	61.9
1934	44.9	36.8	47.9	60.8	67.6	77.9	80.4	78.0	73.2	60.4	52.1	42.0	60.2
1935	41.3	43.6	56.0	58.4	66.2	75.7	78.4	77.8	71.4	61.2	53.7	35.0	59.9
1936	36.8	38.2	53.4	56.2	70.5	75.8	80.0	77.6	73.3	62.7	49.0	43.6	59.8
1937	51.2	44.5	49.8	58.5	67.7	78.4	79.0	79.6	68.2	56.1	44.4	39.4	59.7
1938	39.6	47.0	57.2	60.6	69.8	75.3	79.6	80.0	72.2	59.5	53.0	40.7	61.2
1939	43.4	48.0	54.4	59.0	68.4	80.4	78.8	78.4	74.6	63.8	45.6	41.6	61.4
1940	23.6	41.8	47.2	58.1	67.6	77.8	78.2	77.8	70.3	60.3	49.9	44.8	58.5
1941	39.1	37.6	44.2	62.4	71.2	76.8	80.4	80.2	75.6	68.4	50.1	44.2	60.8
1942	38.3	38.2	51.2	62.2	70.2	77.8	80.7	78.0	73.2	61.4	50.8	39.6	60.2
1943	42.7	45.2	48.0	58.3	71.0	81.2	78.7	80.1	68.6	58.6	47.6	40.4	60.0
1944	39.8	44.5	48.2	58.7	73.0	79.5	77.4	76.0	72.3	59.1	47.7	36.4	59.4
1945	40.4	44.1	60.5	63.0	65.8	77.8	79.0	77.1	74.6	59.1	51.7	35.7	60.7

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Max.	51.2	50.2	60.5	63.0	73.0	81.2	82.0	80.4	79.3	68.4	54.1	49.2	61.9
Min.	28.6	36.8	44.2	55.0	64.3	72.1	76.1	72.7	67.5	54.6	44.4	34.5	58.1
Mean	41.0	43.7	50.9	59.3	68.1	76.7	79.1	77.6	72.9	60.4	49.5	41.9	60.1

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Max.	51.2	50.2	60.5	64.0	75.6	81.2	83.2	82.6	79.3	71.2	57.6	56.1	61.9
Min.	28.6	32.6	43.6	52.0	63.6	71.2	73.8	72.7	66.6	54.6	44.4	33.0	57.7
Mean	41.9	43.7	52.0	60.6	69.8	77.6	80.4	79.2	73.8	61.8	50.8	42.7	61.3

Highest Temperature - Salisbury, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
1891	62	71	66	84	87	94	90	92	88	82	74	66	94
1892	63	63	69	76	87	92	96	91	84	80	72	64	96
1893	60	67	71	86	89	89	96	90	88	80	69	64	96
1894	63	64	85	83	86	93	92	91	90	82	72	68	93
1895	62	63	79	82	95	97	97	93	100	82	76	69	100
1896	65	69	72	94	97	95	100	102	99	79	79	68	102
1897	64	74	78	88	89	98	101	98	98	94	78	68	101
1898	73	71	87	87	95	100	100	95	94	89	73	69	100
1899	65	72	78	88	95	101	102	100	100	84	75	66	102
1900	67	66	71	84	95	98	101	102	99	89	81	66	102
1901	76	75	77	88	94	94	98	93	94	88	80	70	98
1902	61	72	78	88	97	100	102	100	94	85	85	--	102
1903	63	71	76	85	100	93	100	99	92	89	79	58	100
1904	65	70	82	84	93	97	99	98	93	92	74	70	99
1905	69	61	80	87	90	96	98	96	96	91	77	63	98
1906	70	71	76	89	94	98	98	95	94	84	79	71	98
1907	79	66	92	83	91	94	99	98	95	83	78	69	99
1908	--	--	84	87	--	96	96	99	90	85	77	75	99
1909	79	72	76	87	91	95	97	98	90	82	--	66	98
1910	73	70	88	90	93	94	97	95	96	92	74	62	97
1911	77	76	79	86	99	99	98	102	94	94	70	72	102
1912	68	65	83	82	93	94	93	98	101	91	81	74	101
1913	75	72	81	85	93	98	102	97	90	86	77	71	102
1914	72	67	78	92	98	103	102	97	95	86	82	64	102
1915	64	70	72	95	94	93	101	98	94	83	79	68	101
1916	70	69	80	90	98	96	93	97	96	88	82	74	98
1917	73	77	76	93	94	99	97	98	90	85	73	67	99
1918	58	78	85	86	96	100	98	100	88	87	75	75	100
1919	70	67	78	89	90	95	98	98	94	100	83	69	100
1920	70	59	76	89	83	95	95	92	93	88	78	64	95
1921	72	73	87	85	88	99	98	99	100	86	79	70	100
1922	67	74	81	88	90	94	98	92	96	90	75	69	98
1923	62	72	77	--	86	98	100	98	93	87	71	73	100
1924	66	68	77	85	90	100	98	99	99	85	80	75	100
1925	64	74	83	94	95	98	100	101	103	86	72	67	103
1926	67	72	78	84	98	98	105	99	95	92	75	70	105
1927	75	80	84	91	93	100	99	93	99	90	80	74	100
1928	76	66	79	81	92	96	98	100	94	88	78	66	100
1929	70	72	89	91	91	96	96	96	94	81	78	72	96
1930	71	82	74	94	92	100	101	99	95	80	74	64	101
1931	66	66	70	83	91	101	102	96	98	90	77	76	102
1932	72	78	79	86	90	97	103	102	100	77	69	76	103
1933	75	76	79	85	94	100	97	96	97	92	80	70	100
1934	72	66	79	89	90	100	96	94	91	84	80	68	100
1935	73	73	87	84	89	95	96	97	92	85	78	67	97
1936	64	77	85	88	93	100	99	94	95	83	79	67	100
1937	74	74	75	87	95	98	103	99	96	90	74	67	103
1938	66	76	86	88	96	95	101	99	96	91	81	71	101
1939	74	78	85	87	96	100	99	97	100	94	74	72	100
1940	57	68	77	85	97	98	102	98	97	91	81	73	102

Highest Temperature - Salisbury, N. C.  
Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
1941	67	63	73	93	102	99	101	101	102	99	77	72	102
1942	71	63	80	93	93	101	103	105	97	84	82	70	105
1943	78	78	81	91	95	102	99	105	97	87	78	77	105
1944	81	79	84	89	97	105	100	98	97	90	78	64	105
1945	64	72	91	92	92	103	99	98	96	86	84	64	103

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
Max.	81	82	91	94	102	105	105	105	103	99	84	77	105
Min.	57	63	70	83	86	94	96	92	91	77	69	64	96
Mean	70	82	81	88	93	99	100	98	93	88	77	70	101

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
Max.	81	82	92	95	102	105	105	105	103	100	85	77	105
Min.	58	59	66	76	83	89	90	90	84	77	69	58	93
Mean	69	71	79	87	93	97	99	97	93	87	77	69	100

Lowest Temperature - Salisbury, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
1891	28	27	24	34	42	61	63	60	60	36	23	26	23
1892	19	25	26	38	51	65	60	67	52	33	21	18	18
1893	6	24	21	33	51	62	69	61	50	30	20	28	6
1894	25	18	22	36	50	54	64	63	55	41	25	13	13
1895	7	7	29	40	45	59	63	59	45	29	22	17	7
1896	13	5	21	31	53	53	60	55	41	24	31	12	5
1897	7	22	29	33	42	50	60	55	45	39	24	20	7
1898	15	12	21	28	40	52	56	64	50	31	23	10	10
1899	11	-1	29	32	45	52	54	62	42	34	31	6	-1
1900	9	10	21	29	42	56	59	60	48	34	21	20	9
1901	22	18	16	34	39	55	64	60	43	31	21	9	9
1902	15	15	19	31	45	50	60	59	45	34	30	16	15
1903	13	16	28	29	48	49	57	64	44	30	12	12	12
1904	13	14	25	30	40	46	57	53	41	23	21	16	13
1905	10	6	26	28	40	44	60	45	46	27	16	14	6
1906	14	13	19	33	30	54	59	60	58	24	17	12	12
1907	14	15	26	20	38	45	59	50	44	--	35	30	--
1908	--	--	26	29	--	41	58	60	41	33	22	20	--
1909	13	15	24	26	40	59	54	52	41	29	--	9	--
1910	14	17	24	33	36	47	57	60	44	23	23	15	14
1911	18	11	23	30	40	54	57	59	57	37	23	20	11
1912	5	12	25	32	44	47	61	50	48	35	20	18	5
1913	24	19	24	33	38	44	54	57	42	30	21	21	19
1914	21	12	18	34	44	57	60	60	45	29	11	13	11
1915	21	20	20	28	49	51	60	60	46	34	27	23	20

Lowest Temperature - Salisbury, N. C.  
Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
1916	14	13	20	29	43	56	60	60	41	36	20	16	13
1917	14	3	20	33	36	48	61	58	43	28	24	0	0
1918	6	11	27	29	37	52	50	60	39	36	25	20	6
1919	11	13	28	26	49	53	49	53	45	45	21	16	11
1920	6	14	15	29	39	55	57	56	54	25	15	21	6
1921	19	19	33	30	40	51	59	56	58	29	25	25	19
1922	15	18	28	34	39	53	59	55	49	39	18	22	15
1923	21	13	20	22	38	54	59	55	50	36	24	22	13
1924	9	18	22	27	42	54	59	51	44	29	22	12	9
1925	19	22	15	33	38	62	57	52	56	28	20	6	6
1926	14	18	12	29	41	50	55	63	52	30	18	13	12
1927	7	24	11	29	41	49	59	52	41	36	24	15	7
1928	4	19	25	28	40	49	58	64	41	34	19	17	4
1929	16	20	20	36	42	48	56	52	42	34	13	11	11
1930	16	10	18	29	40	41	61	53	46	25	15	2	2
1931	7	13	22	36	40	47	64	53	38	29	22	20	7
1932	24	21	14	31	40	53	53	54	45	33	18	11	11
1933	17	12	23	36	48	46	50	57	47	30	18	19	12
1934	7	8	20	32	47	60	68	60	51	30	22	14	7
1935	10	13	20	31	41	53	64	53	46	31	20	-5	-5
1936	4	0	32	27	44	48	55	55	45	31	20	22	0
1937	30	18	15	28	40	57	54	60	44	27	13	10	10
1938	8	21	20	29	45	52	54	56	39	33	14	16	8
1939	16	15	24	28	35	62	59	57	49	27	20	19	15
1940	-11	12	17	27	34	52	56	57	38	33	24	14	-11
1941	14	13	16	38	37	53	64	55	44	31	20	16	13
1942	-4	12	24	27	44	55	60	48	34	29	19	13	-4
1943	12	9	10	23	34	66	58	51	41	28	19	7	7
1944	8	12	19	25	40	50	50	52	50	30	24	14	8
1945	15	12	33	25	38	51	60	52	57	33	21	6	6

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
Max.	30	24	33	38	48	66	68	64	58	39	25	25	19
Min.	-11	0	10	22	34	41	50	48	34	25	13	-5	-11
Mean	12	15	21	30	40	53	58	55	46	31	20	14	7.3

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
Max.	30	27	33	40	53	66	69	67	60	45	35	30	23
Min.	-11	-1	10	20	30	41	49	45	34	23	11	-5	-11
Mean	13	14	22	30	42	53	58	57	46	31	21	15	8.9

Precipitation in Winston-Salem, Forsyth County, North Carolina:  
Monthly and annual (in inches and hundredths)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1886	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	3.54	-----
1887	2.30	3.70	3.70	2.90	5.10	3.70	-----	-----	-----	-----	-----	4.70	-----
1888	5.77	6.42	6.33	1.55	6.87	-----	-----	-----	-----	-----	-----	4.11	-----
1895	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2.25	4.32	-----
1896	1.98	6.20	2.33	2.11	1.34	6.96	6.45	1.30	5.79	1.34	3.78	1.72	41.30
1897	2.99	5.52	6.37	4.19	3.03	2.77	4.71	4.14	.60	2.29	4.41	2.50	43.52
1898	2.20	.79	3.83	3.52	3.69	2.39	5.89	5.16	4.28	5.69	2.63	3.94	44.01
1899	4.91	8.30	9.25	2.25	2.51	3.08	6.73	2.24	1.87	3.02	1.00	2.23	47.39
1900	4.18	6.20	4.80	3.02	2.57	3.88	2.90	2.78	3.78	3.12	3.13	3.80	44.16
1901	2.31	2.12	4.83	6.11	5.70	5.99	7.75	9.51	2.82	1.80	1.15	5.57	54.66
1902	2.15	6.50	4.59	2.20	1.67	5.60	3.36	3.67	3.26	5.05	4.64	4.80	47.49
1903	4.15	8.76	6.63	3.98	1.00	7.75	2.79	2.90	2.88	2.30	2.15	1.87	47.16
1904	1.90	3.88	3.96	1.42	4.95	6.15	6.83	6.53	2.15	.44	2.66	3.73	44.60
1905	3.04	5.71	1.65	3.24	6.50	1.50	8.60	6.65	.60	2.00	.50	6.60	46.59
1906	6.40	1.59	3.74	1.76	2.81	9.77	8.10	12.92	2.67	3.29	.39	4.17	57.61
1907	.32	2.47	3.28	5.10	3.19	5.94	2.25	3.39	3.45	1.46	5.26	5.06	41.17
1908	4.27	4.18	4.16	3.30	3.59	4.79	6.60	10.46	4.41	4.08	1.92	4.95	56.71
1909	1.66	3.12	4.26	4.26	5.48	9.97	4.33	6.41	2.28	1.48	1.03	2.06	46.34
1910	3.89	3.62	1.51	2.76	4.57	6.44	3.11	6.75	3.43	3.34	.68	2.73	42.83
1911	2.91	2.62	3.95	3.08	1.36	3.11	2.43	5.30	4.39	4.90	3.94	4.18	42.17
1912	2.35	2.60	9.92	4.83	3.05	3.54	3.50	1.97	6.29	1.62	2.80	1.35	43.82
1913	3.41	1.53	6.18	3.21	4.75	2.90	5.01	6.87	4.70	2.65	3.70	3.77	48.68
1914	1.42	4.00	3.20	2.80	1.39	2.31	4.05	1.65	1.58	4.98	2.47	7.75	37.60
1915	3.85	3.60	1.87	1.28	7.17	3.88	2.35	6.87	2.20	6.24	2.73	4.14	48.18
1916	1.79	5.12	1.57	2.65	6.28	4.37	9.39	4.01	1.77	3.20	1.42	2.28	43.85
1917	4.08	3.43	8.46	2.71	2.82	6.34	7.53	3.55	2.80	1.97	1.01	1.51	46.21
1918	5.07	1.50	1.93	6.41	4.17	1.83	3.42	3.42	4.83	2.94	2.10	4.28	41.90
1919	5.51	3.72	4.61	3.49	7.53	2.68	10.11	2.90	.35	4.80	1.37	1.86	48.93
1920	3.98	3.34	5.60	5.63	2.15	4.40	4.80	5.16	3.39	.25	4.83	5.89	49.42
1921	4.40	4.42	1.72	3.28	2.14	1.02	2.54	2.13	2.91	1.38	3.49	1.24	31.17
1922	3.96	4.76	6.22	4.06	4.85	4.83	5.29	2.73	1.48	5.30	.28	3.22	46.98
1923	3.16	2.68	5.81	4.70	3.34	1.45	6.68	2.57	1.72	1.22	3.22	3.57	40.12
1924	3.44	3.33	3.25	4.35	4.08	3.17	4.26	3.57	8.68	1.30	1.27	3.51	44.21
1925	6.10	2.39	3.35	2.06	3.39	1.57	1.34	1.92	1.65	4.57	2.13	2.39	32.86
1926	4.92	4.00	3.26	2.39	1.42	2.44	4.15	2.72	2.40	1.86	4.12	4.84	38.52
1927	1.51	2.94	2.90	2.45	2.67	7.19	4.04	4.03	.36	5.68	1.41	5.28	40.46
1928	2.19	3.17	2.87	4.61	5.08	4.93	5.18	8.72	8.97	.84	.82	.95	48.33
1929	1.90	6.42	4.03	4.70	3.35	6.46	5.51	3.71	2.84	8.23	4.45	2.80	54.40
1930	3.15	1.28	1.74	1.43	5.31	1.98	2.95	2.78	2.85	1.17	3.14	4.00	31.78
1931	1.45	1.18	3.33	5.55	6.99	2.89	5.15	5.68	0.59	1.00	0.50	4.84	39.15
1932	5.71	3.05	4.88	2.04	3.99	5.83	1.42	2.06	3.90	7.98	4.25	5.75	50.86
1933	2.08	2.75	1.57	2.59	4.94	3.16	2.73	4.61	1.61	1.02	1.17	2.30	30.53
1934	1.68	4.23	5.37	3.36	5.54	3.73	6.87	3.56	7.05	1.66	3.01	1.97	48.03
1935	3.26	3.21	5.28	5.66	2.33	1.90	2.79	3.09	3.09	1.96	4.26	2.06	38.89
1936	11.59	4.57	5.57	6.47	0.15	2.79	4.97	3.47	3.17	6.14	1.49	5.52	55.90
1937	9.02	3.44	2.31	3.61	4.25	3.87	3.83	9.94	3.08	7.26	2.68	1.70	54.99
1938	2.34	1.41	2.50	2.94	4.14	5.79	6.82	3.26	2.66	1.31	4.78	3.43	41.38
1939	2.58	7.22	4.41	2.91	1.17	2.67	8.50	10.69	0.24	2.57	1.90	3.64	48.50
1940	2.20	2.69	3.17	2.40	6.41	2.41	4.39	6.97	1.61	1.11	5.94	2.43	41.73

Precipitation in Winston-Salem, Forsyth County, North Carolina:  
Monthly and annual (in inches and hundredths) continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1941	1.97	1.27	3.59	2.33	1.60	5.68	8.92	0.80	2.11	1.05	0.85	2.71	32.88
1942	2.90	4.05	4.51	0.58	6.07	5.55	4.25	5.02	3.54	2.87	1.53	3.65	44.52
1943	3.84	2.79	4.93	3.61	4.16	7.10	4.72	2.35	2.69	1.29	0.71	3.06	41.25
1944	3.10	5.98	7.76	4.84	1.88	2.23	6.72	1.61	10.04	2.15	3.36	2.98	52.65
1945	2.40	5.05	2.24	3.42	3.32	1.62	7.42	1.93	9.99	3.20	3.73	6.63	50.95

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Max.	11.59	7.22	7.76	6.47	6.99	7.19	8.92	10.69	10.04	8.23	5.94	6.63	55.90
Min.	1.45	1.18	1.57	.58	.15	1.02	1.34	.80	.24	.84	.28	.95	30.53
Mean	5.81	3.53	3.86	3.45	3.70	3.69	4.86	4.00	3.57	2.98	2.58	3.38	43.24

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Max.	11.59	8.76	9.92	6.47	7.53	9.97	10.11	12.92	10.04	8.23	5.94	7.75	57.61
Min.	.32	.79	1.51	.58	.15	1.02	1.34	.80	.24	.25	.28	.95	30.53
Mean	3.45	3.82	4.21	3.39	3.80	4.20	5.09	4.57	3.32	2.96	2.52	3.59	44.75

Average Temperature - Winston-Salem, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1895	----	----	----	----	----	----	77.0	77.5	75.6	53.0	47.9	----	----
1896	34.0	40.6	44.6	63.6	73.6	71.6	77.3	79.0	70.8	56.4	53.4	38.8	58.6
1897	34.7	43.4	51.8	57.6	64.2	75.9	77.5	75.2	71.1	61.2	48.2	40.6	58.4
1898	41.0	37.8	53.5	53.6	69.6	75.6	78.1	77.8	72.2	59.2	45.4	39.0	58.6
1899	37.9	34.8	48.6	56.4	69.4	76.7	77.2	78.6	69.0	59.0	49.0	38.2	57.9
1900	37.4	37.0	46.2	58.2	67.6	74.9	80.2	81.4	74.6	62.8	49.8	39.5	59.1
1901	39.3	36.8	49.6	52.6	66.6	74.0	79.8	76.2	69.0	57.0	42.1	36.3	56.6
1902	35.2	34.4	49.0	55.6	71.1	74.4	78.4	76.2	67.8	59.0	53.2	38.9	57.8
1903	37.4	43.4	54.2	56.8	67.3	70.4	78.2	76.4	67.8	57.9	44.2	34.4	57.4
1904	33.4	35.8	48.7	54.0	66.1	73.0	75.7	74.4	69.2	56.0	46.7	37.2	55.8
1905	33.6	31.6	51.2	57.5	68.8	74.4	76.9	74.2	71.6	58.4	47.8	38.2	57.0
1906	42.1	40.2	45.2	60.0	66.0	74.2	76.0	78.6	73.0	56.3	49.2	42.5	58.6
1907	47.0	38.6	54.4	50.7	64.1	69.0	78.0	75.6	72.3	55.4	45.4	40.0	57.5
1908	36.5	35.5	54.6	60.5	67.0	72.4	76.6	73.8	66.8	56.8	49.7	41.9	57.7
1909	42.8	46.4	46.6	58.6	64.0	75.4	74.1	73.0	67.0	54.8	52.3	35.4	57.5
1910	38.4	38.2	54.8	58.8	63.3	69.8	77.2	73.9	70.2	61.1	42.9	34.1	56.9
1911	42.0	44.4	46.2	53.0	68.0	75.8	76.9	77.6	73.8	60.4	43.0	42.0	58.6
1912	32.0	36.5	46.5	59.8	67.2	71.4	----	75.4	72.8	59.3	45.6	----	----
1913	----	39.2	54.6	----	----	----	78.2	74.6	66.0	58.0	----	40.0	----
1914	41.4	33.2	----	55.8	67.0	79.0	76.9	77.0	67.4	59.8	44.6	35.8	----
1915	37.6	42.7	38.9	59.6	66.0	71.7	76.6	74.6	71.4	60.8	49.0	37.4	57.2
1916	42.4	39.4	46.5	54.8	69.8	72.2	76.2	76.0	69.1	58.4	49.0	39.4	57.8
1917	39.0	36.3	46.4	58.8	61.0	74.6	76.9	75.2	64.6	52.4	44.2	30.5	55.0
1918	28.9	46.6	----	53.1	71.0	73.6	73.9	77.6	63.8	62.0	47.5	44.2	----
1919	39.8	39.4	49.2	56.4	66.4	74.8	77.0	75.8	71.2	66.8	48.2	38.3	58.6
1920	36.7	34.6	----	56.4	62.0	71.9	75.8	----	----	61.8	----	39.6	----

Average Temperature - Winston-Salem, N. C.  
Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
1921	37.4	41.6	59.3	60.8	64.6	77.0	79.4	76.4	77.6	59.6	51.4	44.0	60.8
1922	37.4	45.4	51.0	59.2	68.0	76.0	78.4	74.8	73.6	60.6	48.6	42.4	59.6
1923	40.8	39.0	49.2	55.8	65.1	76.0	77.3	77.2	72.4	59.3	46.6	47.6	58.9
1924	36.6	38.6	46.0	56.6	64.1	75.8	75.0	77.2	66.3	58.6	47.8	41.6	57.0
1925	38.0	47.8	50.1	----	63.6	77.7	79.6	75.8	76.6	55.6	43.9	37.9	----
1926	35.1	43.2	41.6	54.0	66.0	72.0	77.8	78.4	73.8	59.9	43.8	39.2	57.1
1927	37.3	46.7	50.2	56.6	66.0	70.0	76.0	72.0	72.2	59.4	50.8	38.6	58.0
1928	37.0	40.0	48.0	54.2	64.2	73.0	78.7	78.2	66.3	61.2	48.6	40.0	57.4
1929	38.2	38.5	52.9	60.6	66.8	73.2	75.7	74.8	70.6	57.8	49.6	39.7	58.2
1930	40.6	45.5	47.2	58.8	69.7	73.0	79.3	75.4	75.2	56.8	46.9	34.9	58.6
1931	38.5	43.0	44.5	56.0	65.0	75.6	80.6	74.8	74.8	61.7	54.3	46.5	59.6
1932	47.5	47.8	46.0	57.6	66.0	75.6	79.5	76.9	71.0	59.7	45.2	41.8	59.6
1933	45.6	41.2	47.7	56.6	70.8	76.6	77.2	76.0	74.5	58.0	47.0	43.2	59.5
1934	40.8	33.5	44.6	58.5	67.1	76.8	80.2	76.4	72.7	58.4	49.0	39.2	58.1
1935	38.2	39.6	51.8	55.5	63.9	74.4	77.0	76.6	69.7	59.7	51.2	32.8	57.5
1936	34.4	36.4	51.2	55.2	69.8	75.0	78.4	76.6	70.8	60.8	46.8	40.8	58.0
1937	46.6	41.4	47.3	56.2	66.4	75.9	75.7	76.4	66.0	55.2	45.4	39.8	57.7
1938	39.2	44.7	54.6	58.2	66.8	70.7	75.5	76.6	68.5	58.0	51.1	39.0	58.6
1939	41.2	45.1	51.6	56.8	65.9	76.9	75.0	74.3	71.0	60.7	45.3	40.7	58.7
1940	27.4	39.8	44.2	55.9	64.9	74.6	74.7	74.6	68.3	60.0	49.2	45.5	56.6
1941	37.0	37.8	44.8	61.7	69.6	75.8	78.8	78.0	73.4	65.8	49.1	43.9	59.6
1942	36.9	36.9	50.3	61.2	69.6	77.0	79.2	75.9	71.2	59.8	50.0	38.5	58.9
1943	41.4	42.4	47.9	57.4	70.2	79.8	77.4	78.4	67.8	58.3	47.7	41.0	59.1
1944	39.6	44.0	48.4	56.8	71.4	77.4	75.8	74.6	70.2	59.0	47.7	35.7	58.4
1945	38.4	42.6	58.2	60.5	63.4	75.3	76.4	75.5	73.5	58.9	50.0	35.2	59.0

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Max.	47.5	47.8	59.3	61.7	71.4	79.8	80.6	78.4	77.6	65.8	54.3	47.6	60.8
Min.	27.4	33.5	41.6	54.0	63.4	70.0	74.7	72.0	66.0	55.2	43.8	32.8	56.6
Mean	38.8	41.7	49.1	57.5	66.8	75.2	77.6	76.1	71.5	59.3	48.3	40.4	58.5

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
Max.	47.5	47.8	59.3	63.6	73.6	79.8	80.6	81.4	77.6	66.8	54.3	47.6	60.8
Min.	27.4	31.6	38.9	50.7	61.0	69.0	73.9	72.0	66.0	52.4	42.1	30.5	55.0
Mean	38.4	40.2	49.1	57.1	66.8	74.4	77.3	76.1	70.7	59.0	47.9	39.4	57.0

Highest Temperature - Winston-Salem, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
1895	--	--	--	--	--	--	99	98	101	82	75	--	---
1896	54	60	77	98	96	96	99	101	97	79	75	71	101
1897	65	73	78	87	86	97	98	94	98	90	73	66	98
1898	71	70	86	85	94	97	100	93	90	87	70	66	100
1899	60	69	74	86	93	98	96	98	99	80	74	66	99
1900	66	64	70	88	94	93	100	101	96	84	73	59	101
1901	66	71	74	87	92	93	97	93	89	83	75	69	97
1902	66	66	76	86	94	96	97	94	90	80	76	64	97
1903	63	69	76	83	95	93	95	95	87	82	75	53	95
1904	61	67	76	84	89	94	95	92	89	89	71	63	95
1905	67	57	77	85	91	94	95	94	94	88	76	62	95

Highest Temperature - Winston-Salem, N. C.  
Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
1906	68	69	70	89	94	95	94	93	91	79	77	68	95
1907	78	64	91	82	89	90	97	93	94	83	75	65	97
1908	64	61	83	85	89	94	93	96	89	81	74	73	96
1909	76	69	74	92	86	91	91	97	89	81	77	69	97
1910	72	67	87	88	89	90	93	90	91	85	67	63	93
1911	73	72	75	78	96	99	97	98	92	89	68	68	99
1912	58	61	81	81	91	93	--	96	97	88	76	72	--
1913	--	68	78	--	--	--	98	93	88	81	75	70	--
1914	72	66	75	88	95	100	101	96	95	84	78	62	101
1915	62	69	63	92	90	92	98	98	92	84	80	65	98
1916	70	67	78	87	94	91	91	93	94	85	80	68	94
1917	72	76	75	92	92	96	97	98	89	84	72	65	98
1918	54	76	--	81	94	97	95	104	87	85	74	72	104
1919	66	64	75	87	90	93	98	94	95	93	76	68	98
1920	68	59	--	86	86	96	96	--	90	87	--	65	--
1921	70	72	91	88	90	99	97	97	99	83	77	73	99
1922	67	74	83	88	88	93	95	93	94	87	74	72	95
1923	65	68	80	87	87	95	98	96	93	87	72	72	98
1924	68	68	76	88	87	99	95	96	94	82	80	79	99
1925	65	75	87	--	95	96	96	97	102	81	67	62	102
1926	65	66	76	82	96	95	101	94	91	87	70	64	101
1927	72	75	81	89	90	96	94	90	96	87	75	78	96
1928	71	64	81	78	90	94	94	95	90	84	77	64	95
1929	71	70	88	89	88	93	92	93	92	82	79	73	93
1930	73	83	74	93	90	99	101	102	96	83	75	66	102
1931	69	66	69	83	89	99	97	93	98	90	81	79	99
1932	74	79	77	84	91	94	99	102	101	80	72	68	102
1933	72	73	78	84	94	101	96	95	95	90	81	70	101
1934	70	66	78	90	92	99	98	93	91	85	79	65	99
1935	68	72	85	83	89	99	94	97	93	87	80	68	99
1936	61	77	79	88	96	101	101	95	92	81	78	67	101
1937	71	71	75	90	95	95	98	92	90	85	74	74	98
1938	68	77	85	87	94	89	94	95	90	88	80	69	95
1939	72	76	85	84	93	95	92	91	97	90	77	72	97
1940	54	68	77	85	97	96	102	95	95	88	78	70	102
1941	--	63	73	91	101	96	97	97	98	95	77	72	101
1942	70	60	79	92	92	97	100	101	94	80	80	69	101
1943	78	76	79	88	90	98	95	99	93	84	76	73	99
1944	79	77	81	84	91	99	93	94	92	85	71	62	99
1945	58	68	89	86	88	100	95	94	92	80	79	61	100

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
Max.	79	83	91	93	101	101	102	102	102	95	81	79	102
Min.	54	60	69	78	87	89	92	90	90	80	67	61	93
Mean	69	71	80	87	92	97	97	95	94	85	76	70	99

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Highest
Max.	79	83	91	98	101	101	102	104	102	95	81	79	104
Min.	54	57	63	78	86	89	91	90	87	79	67	61	93
Mean	68	69	79	87	92	96	96	96	93	85	75	68	98

Lowest Temperature - Winston-Salem, N. C.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
1895	--	--	--	--	--	--	58	51	44	28	21	--	--
1896	11	5	18	30	46	51	52	49	38	29	29	7	5
1897	3	16	26	28	38	51	56	53	39	34	19	16	3
1898	15	8	26	26	37	50	57	64	50	30	19	7	7
1899	13	0	12	28	41	50	49	63	38	30	27	2	0
1900	7	7	20	28	38	52	56	61	48	34	25	19	7
1901	18	10	9	33	45	52	64	60	45	31	17	5	5
1902	10	14	20	29	41	50	56	55	40	31	27	17	10
1903	15	13	24	26	44	45	55	62	42	29	14	13	13
1904	4	5	23	26	41	50	59	52	40	24	20	17	4
1905	9	0	24	27	41	48	58	49	45	28	16	13	0
1906	12	10	18	27	31	53	58	66	54	25	19	15	10
1907	6	13	27	26	37	46	56	53	43	28	20	15	6
1908	14	6	22	28	34	51	56	51	40	33	22	19	6
1909	12	15	24	26	34	54	50	50	38	26	21	10	10
1910	12	12	22	32	32	42	57	60	44	21	21	13	12
1911	16	19	19	26	36	51	53	55	55	33	20	17	16
1912	4	11	20	29	41	43	--	50	49	31	16	--	--
1913	--	12	23	--	--	--	61	55	38	21	--	15	--
1914	15	9	--	30	41	53	54	55	39	27	2	10	--
1915	19	18	20	28	41	50	55	57	40	31	24	11	11
1916	11	11	19	29	42	53	58	59	38	33	19	9	9
1917	17	3	21	34	34	55	61	51	41	25	19	-2	-2
1918	-4	15	--	27	40	57	50	52	37	33	24	21	--
1919	11	17	26	28	46	54	49	52	42	45	23	16	11
1920	8	14	--	28	36	51	54	61	48	26	--	19	--
1921	17	19	32	28	36	50	59	56	54	31	25	23	17
1922	13	17	27	33	40	52	57	53	47	35	18	18	13
1923	21	13	20	21	36	51	59	54	49	35	21	25	13
1924	6	18	22	26	41	53	58	52	44	29	23	12	6
1925	17	21	15	31	37	57	56	56	51	29	21	7	7
1926	13	18	16	28	39	52	54	63	54	29	20	19	13
1927	3	24	18	30	41	49	58	52	41	36	23	14	3
1928	5	18	25	30	40	49	61	62	40	33	20	17	5
1929	16	18	20	32	44	48	56	53	43	35	12	11	11
1930	10	14	18	32	43	45	59	52	48	26	16	7	7
1931	11	20	22	34	39	49	63	54	40	31	25	21	11
1932	24	24	15	34	40	54	54	56	46	33	18	15	15
1933	17	9	22	34	45	40	48	55	46	28	15	15	9
1934	5	8	12	30	44	58	65	57	47	27	19	14	5
1935	8	14	19	28	41	51	59	49	42	29	18	-3	-3
1936	5	-1	27	24	41	43	55	51	42	28	16	19	-1
1937	27	16	12	29	36	57	53	57	44	26	12	11	11
1938	8	21	23	26	45	47	53	55	42	30	15	13	8
1939	13	13	19	27	33	59	56	55	47	25	20	11	11
1940	-10	12	15	24	31	51	50	55	37	31	24	13	-10

Lowest Temperature - Winston-Salem, N. C.  
Continued-

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
1941	14	13	19	37	36	51	63	54	46	33	20	15	13
1942	-6	12	27	26	44	57	59	48	36	28	20	10	-6
1943	12	7	12	25	38	64	61	52	41	29	21	8	7
1944	13	11	20	26	44	53	58	54	50	37	26	17	11
1945	16	13	34	30	39	48	60	54	52	37	23	13	13

Summary of Period 1921-45

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
Max.	27	24	34	37	45	64	65	63	54	37	26	25	17
Min.	-10	-1	12	21	31	40	48	48	36	25	12	-3	-10
Mean	11	15	20	29	40	52	57	54	45	31	20	14	7.6

Summary of Record

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Lowest
Max.	27	24	34	37	46	64	65	66	55	45	29	25	17
Min.	-10	-1	9	21	31	40	48	48	36	21	2	-3	-10
Mean	11	13	21	29	39	51	57	55	44	30	20	13	7.4

## QUALITY OF WATER

Analytical work to determine the composition of North Carolina's surface waters was first undertaken by the U. S. Geological Survey in 1906. At this time only one station was selected in the Yadkin-Pee Dee River Basin. Daily samples were collected; combined as 10-day composite samples, and analyzed over a period of a year. These analyses are presented herein.

No studies of note were undertaken by either the Department of Conservation and Development or the U. S. Geological Survey until 1925. At this time an agreement between the Water Resources and Engineering Division and the Quality of Water Division of the U. S. Geological Survey was initiated for a cooperative program of work. Under this agreement the personnel of the Surface Water Division of the U. S. Geological Survey was to collect samples as they traveled in connection with their other activities; and the Quality of Water Division of the U. S. Geological Survey agreed to undertake their analyses as its laboratory facilities would permit without cost to the State other than express on the shipment of samples.

Proceeding on that basis, several samples were analyzed during the year 1925-26, and the results of these determinations are presented herein. However, there was a limit to the number of samples that could be handled; and the unavoidable delay in rendering reports often caused embarrassment when the need for the information was urgent.

The increasing frequency with which urgent requests came into the department for information relative to the quality of the water in almost every section of the State caused Director Wade H. Phillips to take note of the situation early in 1927. Director Phillips effected an agreement with E. E. Randolph, Professor of Chemical Engineering, State College of Agriculture and Engineering, Raleigh, N. C., whereby Dr. Randolph agreed to devote his time during the summer of 1927 to analytical work in connection with Water Analyses. Unfortunately, construction on the State College campus forced Dr. Randolph to work in an improvised laboratory, but too much cannot be said of the diligence and devotion of his application. This work during the summer provided several analyses, which, when added to a number previously analyzed by Dr. Randolph, increased the analyses in the files of the Department.

Again, in 1932 the need of chemical analyses of surface water became pressing. At this time an agreement was entered into with Mr. H. F. Crisco, a post-graduate of the University of North Carolina, to have more analytical work done. His analyses are published in this bulletin. This agreement was carried on for only one school year, as it was not very satisfactory. Daily samples were to be collected, composites of 10-day samples were to be made and analyzed. It will be noted that these were not continuous, and are of very little value as a study during the whole period.

The need for information on the chemical contents of the waters of North Carolina continued to become greater, so in 1943 an agreement was made with the Quality of Water Division of the U. S. Geological Survey for a more complete study of the waters. A laboratory was established in Raleigh and a well planned study was started. Under this agreement the Department of Conservation and Development is to pay one-half the cost of the laboratory and the U. S. Geological Survey is to pay an equal amount. Although this agreement has been in operation for only a few years, much valuable information has been collected and will be found in this publication.

ANALYSES OF WATER FROM FEE DEE RIVER NEAR FEE DEE, N. C.  
Analyzed by U. S. G. S.  
Parts per million

Date	Turbidity	Total Iron Fe	Silica SiO <sub>2</sub>	Iron Fe	Calcium Ca	Magnesium Mg	Sodium and potassium Na+K	Carbonate radicle CO <sub>3</sub>	Bicarbonate radicle HCO <sub>3</sub>	Sulphate radicle SO <sub>4</sub>	Nitrate radicle NO <sub>3</sub>	Chlorine Cl	Total dissolved solids	Mean gage height (feet) <sup>b</sup>
Oct. 26-Nov. 5...	40	---	39	Tr.	9.1	1.6	---	0.0	34	---	0.4	3.5	87	3.0
Nov. 6-16.....	90	---	30	0.9	5.7	Tr.	---	.0	20	---	.6	2.0	62	2.8
Nov. 17-29.....	140	---	32	.9	4.7	Tr.	---	.0	16	---	.3	7.5	82	3.9
Nov. 30-Dec. 11..	135	---	30	.8	5.5	Tr.	---	.0	20	---	.5	7.0	78	2.8
Dec. 12-21.....	140	---	26	.8	6.4	1.2	---	.0	22	---	.6	7.5	74	3.1
Dec. 27-Jan. 8...	145	---	30	.40	5.2	Tr.	---	.0	17	---	.6	4.0	72	3.8
Jan. 9-21.....	15	---	25	.20	7.4	1.6	---	.0	27	---	.4	1.7	63	2.8
Jan. 22-Feb. 3...	25	---	18	.30	8.4	1.6	---	.0	32	---	.9	3.0	58	2.6
Feb. 6-19.....	15	---	13	.20	9.2	1.6	---	.0	32	---	.4	4.5	58	2.7
Feb. 20-Mar. 15..	40	---	14	.10	12	0.8	---	.0	41	---	.4	1.5	64	3.2
Mar. 16-30.....	25	---	18	.10	10	1.2	---	.0	34	---	.7	3.5	59	2.8
Mar. 31-Apr. 15..	20	---	26	.30	7.6	Tr.	---	.0	24	---	.4	2.0	45	3.1
Apr. 16-25.....	120	---	15	.20	7.0	1.2	---	.0	24	---	.2	2.0	45	3.1
Apr. 26-May 1...	160	---	18	.40	5.5	1.2	---	.0	20	---	.3	3.0	40	3.4
May 2-11.....	100	---	20	a1.4	6.5	2.9	7.2	.0	44	4.0	.5	3.0	76	2.9
May 12-24.....	60	---	27	.40	6.7	3.3	7.8	.0	42	3.6	.2	3.5	78	2.5
May 22-June 3...	255	---	21	.8	5.1	2.1	11	.0	39	3.6	.4	4.5	74	2.8
June 18-28.....	365	---	26	a2.8	4.1	3.7	7.2	.0	39	2.3	.5	3.0	86	3.0
June 29-July 10..	375	---	37	Tr.	5.1	1.3	14	.0	48	4.4	1.4	1.4	91	3.2
Aug. 19-31.....	270	6.3	34	Tr.	5.8	0.8	13	.0	45	3.9	.9	1.6	86	2.4
Sept. 1-13.....	240	10	23	.03	6.8	1.7	9.4	.0	44	3.9	.5	1.1	64	2.3
Sept. 14-28.....	295	8.8	35	.03	4.9	1.3	5.4	.0	26	4.7	.7	.7	70	2.8
Oct. 2-15.....	45	2.4	26	Tr.	6.6	.8	6.5	.0	29	3.9	.3	1.2	62	2.4
Oct. 16-19.....	31	---	30	Tr.	5.3	1.7	7.2	.0	43	5.6	1.1	1.1	78	2.2
Mean.....	141	---	26	.31	6.9	1.3	8.9	.0	32	4.0	.6	3.1	69	---

a Abnormal; computed as HCO<sub>3</sub> in the average.

b Gaging station at Churaw, S. C., 20 miles below.

Yadkin River at Yadkin College, N. C.

Location.- At gaging station at bridge on U. S. Highway 64, 1½ miles south of Yadkin College, Davidson County, and 6½ miles downstream from Reedy Creek. Drainage Area.- 2,280 square miles.

Records available.- Chemical analyses; October 1943 to September 1944.

Water temperatures; October 1943 to September 1944.

Extremes, 1943-44.- Dissolved solids; Maximum, 47 parts per million Oct. 21-31, June 11-20; minimum, 32 parts per million Mar. 21-31.

Total hardness; Maximum, 17 parts per million Oct. 1-10; minimum, 10 parts per million July 11-20.

Water temperatures; Maximum, 87°F. June 18; minimum, 33°F. Dec. 15, 16, 21, 26.

[Analyzed by Geological Survey-1/ Parts per million]

Date	Mean discharge (second-feet)	Temperature (° F.)	Suspended matter	Oxygen consumed		Color	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Total dissolved solids	Total hardness as CaCO <sub>3</sub>
				Unfiltered	Filtered														
Oct. 1-10, 1943-----	1,188	62	17	4.4	2.4	9	12	0.07	4.2	1.8	4.7	1.4	24	3.0	2.8	0.1	0.8	44	17
Oct. 11-20-----	1,264	59	29	2.8	1.6	4	13	.02	4.1	1.4	4.8		23	3.2	2.6	.0	.7	46	16
Oct. 21-31-----	1,260	55	10	2.2	2.0	7	14	.03	4.0	1.4	5.9		26	3.0	2.8	.0	.3	47	16
Nov. 1-10-----	1,879	68	88	3.5	2.3	12	13	.06	3.6	1.3	5.8		22	4.0	2.5	.0	1.0	44	14
Nov. 11-20-----	1,506	43	47	4.4	1.4	10	12	.04	3.0	1.2	5.5		19	4.2	2.6	.0	1.2	43	12
Nov. 21-30-----	1,308	42	45	2.6	1.6	9	13	.08	3.8	1.5	4.8		22	3.4	2.5	.0	.8	44	16
Dec. 1-10-----	1,356	48	66	3.0	1.8	8	12	.03	3.7	1.4	6.0		22	3.1	2.9	.0	.7	43	15
Dec. 11-20-----	1,180	38	54	2.4	1.5	6	12	.02	4.0	1.5	5.2		24	3.0	2.8	.0	1.0	45	16
Dec. 21-31-----	2,093	38	74	3.9	2.0	9	11	.09	3.3	1.2	3.8	1.2	18	3.6	2.1	.1	1.0	41	13
Jan. 1-10, 1944-----	3,216	39	269	6.8	2.0	11	9.8	.09	2.9	1.2	3.6	1.4	14	3.8	2.1	.1	1.8	39	12
Jan. 11-20-----	2,626	38	71	2.8	1.3	19	11	.30	3.2	1.2	6.1		18	3.7	3.0	.0	1.4	42	13
Jan. 21-31-----	1,877	45	21	1.9	1.2	14	12	.11	3.8	1.3	4.8		20	3.3	2.9	.0	1.2	43	15
Feb. 1-10-----	1,586	44	219	5.6	2.2	8	10	.02	3.3	1.4	4.1		18	3.2	2.2	.1	1.9	40	14
Feb. 11-20-----	5,732	40	116	4.0	2.5	9	10	.04	3.4	1.3	3.9		17	3.7	2.1	.1	1.6	39	14
Feb. 21-28-----	3,267	51	89	4.0	2.2	8	10	.01	2.8	1.2	3.4		16	3.1	1.9	.1	1.2	36	12
Mar. 1-10-----	3,600	48	219	5.8	2.1	9	11	.03	2.8	1.2	3.9		16	3.1	2.0	.1	1.3	38	12
Mar. 11-20-----	4,981	50	203	4.0	2.3	6	10	.02	2.7	1.1	3.9		15	3.3	1.9	.0	1.6	34	11
Mar. 21-31-----	7,992	47	283	5.2	2.1	6	9.4	.05	2.8	1.0	3.8		14	3.8	1.5	.0	1.4	32	11
Apr. 1-10-----	3,595	62	71	2.6	1.5	7	12	.07	3.1	1.1	3.4	1.0	16	2.8	1.8	.0	1.3	37	12
Apr. 11-20-----	5,220	60	288	6.0	2.2	12	11	.03	3.0	1.1	3.2	1.1	18	3.1	1.8	.0	1.1	37	12
Apr. 21-30-----	3,130	63	148	4.4	1.9	5	12	.02	3.2	1.2	4.3		19	2.8	2.0	.1	1.0	37	13
May 1-10-----	3,238	68	126	4.6	2.8	9	11	.02	3.0	1.2	4.2		18	2.7	2.8	.0	.4	40	12
May 11-20-----	2,360	73	75	3.4	2.0	11	12	.03	3.8	1.3	4.8		21	2.6	2.8	.0	1.0	43	14
May 21-31-----	2,495	77	426	8.0	5.0	7	12	.01	3.0	1.1	3.2		18	2.5	2.2	.1	.0	40	12
June 1-10-----	2,196	75	368	7.2	2.8	5	12	.03	3.2	1.3	4.9		19	2.7	2.6	.1	2.1	44	13
June 11-20-----	2,255	81	539	8.4	3.3	12	12	.02	3.4	1.3	4.1		19	3.1	2.5	.1	.1	47	14
June 21-30-----	1,599	80	246	6.3	2.4	3	12	.02	3.7	1.3	5.5		22	2.8	2.8	.0	2.0	46	16
July 1-10-----	2,021	78	487	9.2	2.4	3	9.8	.02	3.2	1.2	4.1	1.3	18	3.0	2.4	.1	2.0	40	13
July 11-20-----	4,998	77	1,340	28	3.8	8	9.7	.04	2.6	.9	3.1	1.6	13	4.0	1.8	.1	2.1	36	10
July 21-31-----	2,167	80	298	7.0	2.0	3	12	.03	3.1	1.2	4.4		18	3.1	2.2	.1	1.1	39	13
Aug. 1-10-----	2,184	80	483	8.6	2.0	3	11	.02	2.8	1.1	4.6		18	2.7	1.9	.1	1.1	38	12
Aug. 11-20-----	1,359	82	140	4.6	1.8	3	13	.01	3.8	1.3	5.4		23	2.8	2.8	.0	1.2	44	15
Aug. 21-31-----	1,348	75	78	3.6	1.9	3	11	.03	4.0	1.3	6.0		26	2.6	3.0	.1	1.1	44	16
Sept. 1-10-----	1,336	78	124	4.3	2.0	6	12	.03	3.4	1.1	7.1		26	3.2	2.8	.1	1.0	44	13
Sept. 11-20-----	2,453	71	425	10	2.4	7	11	.02	3.4	1.2	5.8		22	3.2	2.6	.1	1.0	40	13
Sept. 21-30-----	4,036	69	434	12	2.8	7	11	.02	3.3	1.1	4.2	1.7	22	3.0	2.8	.1	.8	40	13
Average-----	2,653	-----	222	5.8	2.2	8	11	.04	3.3	1.2	4.7		19	3.1	2.4	.1	1.1	41	13

YADKIN RIVER AT ELKINS  
Composite of Daily Samples by H. F. Chrisco  
Parts per million

Date	Suspended Matter	Color	Silica SiO <sub>2</sub>	Iron Fe	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Car- bonate CO <sub>3</sub>	Bicar- bonate HCO <sub>3</sub>	Sul- phate SO <sub>4</sub>	Chlo- ride Cl	Ni- trate NO <sub>3</sub>	Total Dissolved Solids	Total Hard- ness CaCO <sub>3</sub>	Tur- bidity
Nov. 1-10, 1932....	121	12	8.2	.02	3.5	1.4	3.7	.6	--	18	.5	1.0	Trace	37	--	120
Nov. 11-20.....	93	5	12	.06	3.4	.6	2.2	1.3	--	15	2.1	1.1	--	35	11	100
Nov. 21-30.....	7	5	13	.03	3.2	1.5	3.8	.2	--	14	2.1	1.3	.22	32	14	10
Jan. 8-17, 1933....	25	7	12	.02	2.1	1.0	2.0	2.2	--	13	1.6	1.4	.04	30	9	10
Jan. 18-28.....	41	10	12	.03	2.3	1.0	2.3	1.1	--	15	1.8	1.6	.09	29	10	50
Mar. 1-10.....	22	0	14	.04	2.7	.7	3.4	.8	--	17	1.2	1.0	.07	34	10	5
Mar. 11-20.....	151	0	11	.04	1.9	.5	3.0	.7	--	13	1.0	.9	.11	28	7	120
Mar. 21-30.....	33	0	12	.05	2.0	.9	2.4	1.0	--	14	1.4	.9	.11	27	9	10
May 1-10.....	---	2	13	.05	2.4	1.2	3.0	1.1	--	16	1.9	1.1	.22	30	11	50
May 11-20.....	---	2	15	.05	2.6	1.2	3.5	1.3	--	16	2.0	1.3	.22	34	11	40
May 21-30.....	---	2	15	.05	2.5	1.2	3.5	1.0	--	15	2.0	1.3	.22	35	11	60

YADKIN RIVER AT YADKIN COLLEGE  
Composite of Daily Samples by H. F. Chrisco  
Parts per million

Date	Suspended Matter	Color	Silica SiO <sub>2</sub>	Iron Fe	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Car- bonate CO <sub>3</sub>	Bicar- bonate HCO <sub>3</sub>	Sul- phate SO <sub>4</sub>	Chlo- ride Cl	Ni- trate NO <sub>3</sub>	Total Dissolved Solids	Total Hard- ness CaCO <sub>3</sub>	Tur- bidity
Nov. 3-12, 1932.....	205	12	10	.02	3.8	2.3	4.3	.9	---	18	.9	1.3	.70	42	12	150
Nov. 13-22.....	99	10	11	.06	4.6	.6	2.3	.9	---	16	2.9	1.9	.88	38	14	100
Nov. 23, Dec. 2.....	116	10	13	.02	4.1	1.7	3.5	1.6	---	16	5.2	1.5	.66	37	17	130
Jan. 10-19, 1933.....	57	7	12	.05	2.9	1.4	3.5	.9	---	16	2.4	2.3	.13	32	13	50
Jan. 19-28.....	46	3	13	.09	3.4	2.4	3.9	1.7	---	24	2.3	1.7	.22	42	19	25
Jan. 29-Feb. 7.....	24	3	13	.03	3.3	2.6	4.0	1.6	---	30	1.9	1.7	.22	45	19	15
Mar. 1-10.....	54	5	13	.06	3.5	1.4	3.9	1.9	---	20	1.6	2.1	.33	37	15	20
Mar. 11-20.....	62	2	12	.03	2.8	1.3	3.5	1.2	---	18	1.9	1.4	.17	30	12	50
Mar. 21-30.....	184	2	12	.03	2.8	1.2	3.7	1.2	---	17	1.9	1.3	.44	32	12	120
May 1-10.....	330	5	11	.05	2.8	1.3	4.2	.6	---	17	1.0	1.5	.09	34	12	300
May 12-21.....	430	5	12	.05	2.6	1.3	3.8	.6	---	17	1.8	1.5	.22	34	12	300
May 22-31.....	---	3	14	.06	3.3	1.5	3.7	1.2	---	19	1.6	1.6	.33	39	14	20

SOUTH YADKIN RIVER AT COOLEEMEE  
Composite of Daily Samples by H. P. Chriss  
Parts per million

Date	Sus- pended Matter	Color	Silica SiO <sub>2</sub>	Iron Fe	Calcium Ca	Magnesium Mg	Sodium Na	Potas- sium K	Car- bonate CO <sub>3</sub>	Bicar- bonate HCO <sub>3</sub>	Sul- phate SO <sub>4</sub>	Chlo- ride Cl	Ni- trate NO <sub>3</sub>	Total Dissolved Solids	Total Hard- ness CaCO <sub>3</sub>	Tur- bidity
Dec. 2-11, 1932.....	41	5	26	.04	5.8	1.9	5.8	.6	--	28	2.1	1.3	.22	56	22	15
Dec. 12-21.....	52	7	17	.03	5.7	1.8	3.5	1.2	--	21	6.0	1.5	.44	60	22	70
Dec. 22-31.....	110	5	10	.02	3.4	1.2	1.3	2.7	--	14	3.0	1.5	.11	31	13	120
Jan. 1-10, 1933.....	89	10	13	.02	3.0	1.5	2.4	2.6	--	16	2.1	1.4	.09	32	14	120
Jan. 14-23.....	18	10	13	.06	3.2	1.3	2.0	1.6	--	18	2.6	2.0	.09	36	14	35
Jan. 25-Feb. 4.....	30	3	12	.04	3.7	2.2	2.1	1.2	--	23	1.7	1.5	.22	42	18	20
Apr. 1-10.....	70	2	14	.04	3.5	1.8	3.5	1.2	--	23	1.8	1.8	.09	37	16	60
Apr. 11-20.....	160	5	14	.03	3.2	1.7	3.6	1.4	--	21	2.1	1.3	.04	38	15	140
Apr. 21-30.....	33	5	15	.03	3.4	1.5	3.7	1.2	--	21	1.6	1.5	.07	39	15	15
May 1-10.....	320	5	12	.06	2.8	1.2	4.4	.4	--	18	1.8	1.3	.10	32	9	300
May 14-23.....	---	5	15	.07	3.5	1.4	4.5	1.3	--	20	2.1	1.4	.33	35	15	100
May 24-June 2.....	---	--	15	.05	3.7	1.6	5.1	.9	--	24	2.4	2.2	.33	44	16	---

PUBLIC WATER SUPPLIES

Location	Date of Collection	Sus- pended Matter	Color	Silica SiO <sub>2</sub>	Iron Fe	Calcium Ca	Magnesium Mg	Sodium Na	Potas- sium K	Car- bonate CO <sub>3</sub>	Bicar- bonate HCO <sub>3</sub>	Sul- phate SO <sub>4</sub>	Chlo- ride Cl	Ni- trate NO <sub>3</sub>	Total Dissolved Solids	Total Hard- ness CaCO <sub>3</sub>	Tur- bidity	Ph	Authority
Albemarle.....	7-18-27	4.0	10	13	.1	5.4	2.0	2.6	.9	--	18	4.7	7.0	.2	55	22	10	6.8	Randolph
Lexington.....	7-11-28	0.0	0	23	.2	8.9	2.4	3.5	2.7	--	33	12	3.5	.3	69	32	0	6.8	Bd. of Health
Lumberton.....	6-30-27	6.2	60	6.8	.4	5.9	1.5	2.4	.5	1.2	17	4.5	4.0	0.0	47	21	8	---	Randolph
Mount Pleasant.....	8-8-44	---	0	35	.30	10	3.0	9.2	--	--	58	2.3	3.8	2.5	100	37	--	---	U. S. G. S.
Statesville.....	1-11-28	0	--	8.2	---	5.8	1.2	0.8	--	--	19	6.2	2.4	.25	43	14	--	---	Randolph
Thomasville.....	7-1-27	3.2	5	12	.2	7.2	1.1	2.8	.8	--	16	8.0	3.0	0.0	53	18	7	7.0	Randolph
Winston-Salem.....	4-28-44	---	2	8.5	.02	12	1.4	2.9	3.9	3.9	14	17	4.0	.8	63	36	--	---	U. S. G. S.

MISCELLANEOUS ANALYSES IN YADKIN - PEE DEE RIVER BASIN  
Parts per million

Source and Location	Date of Collection	Suspended Matter	Color	Silica SiO <sub>2</sub>	Iron Fe	Calcium Ca	Magnesium Mg	Sodium Na	Potassium K	Car-bonate CO <sub>3</sub>	Bioar-bonate HCO <sub>3</sub>	Sul-phate SO <sub>4</sub>	Chlo-ride Cl	Fluo- F	Mi-MO <sub>3</sub>	Total Dissolved Solids	Total Hard- ness CaCO <sub>3</sub>	Authority
Abbotts Creek at Lexington at gage .....	8-12-44	43	7	20	.02	9.9	3.4	19		0	59	5.8	18	0.2	0.8	109	39	U. S. G. S.
Aberdeen Creek at Aberdeen .....	12-26-27	10	80	9.7	.16	2.6	1.0	6.3	1.1	0	4.9	9.2	8.0		.18	43	10	Randolph
Aberdeen Creek at Aberdeen .....	5-26-46	4	16	1.8	.02	.7	.3	2.1		0	4.0	1.1	2.1	.0	.2	13	3	U. S. G. S.
Ararat River near Mount Airy .....	4-12-26	20	9	10	.25	6.2	2.6	1.0	.5	0.2	24	3.2	4.6		.18	53	28	Randolph
Brown Creek near Polkton at gage .....	10-31-44	18	37	9.2	.02	3.7	2.1	4.5		0	17	8.3	4.9	.0	.3	53	18	U. S. G. S.
Crystal Lake near Lakeview near Dam .....	4-6-46	7	28	1.8	.01	1.0	.1	6.1		0	11	2.1	3.4	.0	.2	23	3	do
Denson Creek near Troy above Little River .....	1-3-46	--	100	14	.12	2.4	.9	3.6		0	11	4.1	2.8	.0	.2	56	10	do
Drowning Creek at Blue's Bridge .....	1927	16	50	11	.5	2.3	2.1	2.4	.5	0	9.4	3.9	6.0		.2	38	14	Randolph
Drowning Creek near Hoffman at gage .....	10-30-14	4	34	5.0	.04	2.0	.3	2.5		0	7.0	1.2	2.8	.0	1.0	26	6	U. S. G. S.
Elk Creek below Elkin Shoe Factory .....	11-27-26	11	18	12	.30	3.2	1.1	1.6	.5	0	18	1.8	1.0		.16	34	13	do
Fisher River near Copeland at gage .....	8-11-44	16	4	9.5	.06	2.1	.9	3.3		0	16	1.4	1.0	.0	.2	27	9	do
Forbush Creek near Yorkville at gage .....	8-11-44	32	2	13	.04	3.1	1.3	4.3		0	22	2.0	1.4	.0	.3	37	13	do
Fourth Creek near Statesville .....	1-11-26	10	10	16	.5	5.4	1.6	2.1	.5	0	19	1.9	4.8		.3	52	20	Randolph
Lake Wacoasw below Dam .....	8-30-27	10	10	7.7	.2	6.9	1.0	3.2	1.0	0	13	5.3	9.8		.7	61	21	do
Little River at Highway No. 74 .....	7-28-27	31	20	9.8	1.0	4.4	1.8	6.4	1.8	0	17	9.6	9.0		.2	81	18	do
Little River near Troy on State Hwy. 27 .....	1-3-46	--	76	14	.19	3.7	1.2	3.7		0	18	4.9	2.8	.0	.2	58	14	U. S. G. S.
Lovels Creek at Mr. Airy at proposed intake .....	7-4-46	10	3	11	.02	3.2	.9	3.3		0	19	1.3	1.1	.1	.3	31	12	do
Lumber River at Boardman at gage .....	11-3-44	2	83	7.4	.06	.9	.7	6.0		0	11	2.3	3.2		.2	38	5	do
Middle Fork Creek at center of Winton-Salem lake .....	9-28-28	24	10	18	.25	5.0	2.0	3.0	1.5	--	22	6.5	3.1		.3	51	21	Bd. of Health
Morrison Creek near Statesville .....	1-11-26	20	12	16	.38	6.1	2.0	2.2	.4	--	18	6.8	3.0		.4	58	24	Randolph
North Fork Yadkin River near Salisbury .....	4-12-26	67	--	6.0	.72	5.6	2.6	6.2		11	--	13	3.3		--	81	25	So. Ry.
Pee Dee River at Bridge on Hwy. 74 .....	10-30-44	64	18	8.9	.06	3.8	1.4	2.0	.9	0	21	3.0	2.0		.3	50	18	Randolph
Pee Dee River near Rockingham at gage .....	6-22-46	6	12	4.0	.04	1.6	.5	2.2		0	6.0	1.4	3.0	.1	2.4	44	15	U. S. G. S.
Rocky River below dam of Rocky View Milling Co. ....	7-26-27	91	18	7.4	.36	4.0	3.6	3.3	1.6	0	22	5.1	7.0		.6	58	24	Randolph
Rocky River near Norwood at gage .....	10-31-44	7	30	16	.29	7.8	3.9	22		0	61	10	18	.0	.2	110	38	U. S. G. S.
Rocky River at Turnersburg at gage .....	8-11-44	37	1	13	.02	2.8	1.3	3.6		0	21	1.2	1.1	.0	.3	34	12	do
South Yadkin River at Coolemans at gage .....	8-12-44	136	3	14	.02	3.4	1.6	5.2		0	27	1.7	1.6	.0	.5	45	15	do
South Yadkin River near Mocksville at gage .....	9-12-44	96	3	14	.02	3.4	1.6	3.7		0	24	1.6	1.2	.0	.4	40	15	do
South Yadkin River at Salisbury .....	7-18-27	128	20	17	.4	4.1	1.8	2.5	.8	0	17	4.5	4.0		.12	55	18	Randolph
Wacoasw River at Freedland at gage .....	11-2-44	3	170	8.8	.06	2.8	1.0	6.2		0	14	1.6	8.0		.1	80	11	U. S. G. S.
Swift Creek near Mount Airy .....	4-12-26	6	10	9.7	.18	5.0	1.6	1.0	0.4	0.1	14	2.0	5.4		.021	40	19	Randolph
Third Creek at Cleveland at gage .....	8-11-44	121	4	20	.02	6.4	2.7	19		0	40	4.0	22	.1	.5	98	27	U. S. G. S.
Unwharrie River near Eldorado at gage .....	10-31-44	6	41	18	.28	5.8	3.1	6.1		0	36	4.1	3.2	.0	.2	81	20	do
Unwharrie R. river near Troy at Bridge on Hwy. 109 .....	7-26-27	144	12	13	.7	4.5	2.1	3.2	1.2	0	14	6.6	8.0		.16	59	27	Randolph
Yadkin River at Badin water supply intake .....	11-26-27	--	Yellow	40	6.1	4.0	2.2	6.5		--	28	4.1	6.0		.3	--	19	Giles
Yadkin River at High Hook at gage .....	8-11-44	64	6	9.8	.03	3.6	1.4	5.3		0	22	3.7	2.4	.0	1.1	43	15	U. S. G. S.
Yadkin River at Salisbury .....	9-11-26	480	18	12	.13	5.0	1.7	4.0		0	21	5.0	3.6		1.5	61	19	do
Yadkin River near Salisbury .....	3-20-26	38	--	6.1	.59	4.9	2.4	4.7		8.3	--	14	2.2		--	52	22	So. Ry.
Yadkin River near Salisbury .....	2-11-26	23	60	20	.78	4.2	2.0	2.9	.7	0	22	3.9	2.0		.60	56	19	U. S. G. S.
Yadkin River at N. Wilkesboro .....	9-11-26	244	60	12	.41	5.1	1.4	18	1.8	0	22	5.4	25		.10	88	18	do
Yadkin River at N. Wilkesboro at gage .....	11-27-26	9.4	40	14	.4	3.9	1.1	4.4	.8	0	17	4.2	3.6		.0	50	14	do

# Ground Water in the Yadkin-Pee Dee River Basin, North Carolina

By M. J. Mundorff 1/

## INTRODUCTION

The program of investigations of the ground-water resources of North Carolina was begun in August 1941 as a cooperative project of the U. S. Geological Survey and the North Carolina Department of Conservation and Development. The project is under the direction of A. N. Sayre, Geologist in Charge, Ground Water Branch, U. S. Geological Survey, and J. L. Stuckey, State Geologist of North Carolina.

The program comprises several phases of investigation which are carried on simultaneously. A systematic survey of the State is being made by counties and field work has been completed in 18 counties. Current geologic and hydrologic data, including well cuttings and logs are obtained in all parts of the State. Records of changes in water level in 47 water-table and artesian wells are being obtained at the present time. A considerable number of special investigations have been made where critical problems have arisen, including many at military bases and in defense areas during the war.

Publications of the Department of Conservation and Development that give information on ground water in the State include: Information Circular 3, Selected well logs of the Coastal Plain of North Carolina; Information Circular 6, A possible new source of ground-water supply in the Elizabeth City area, North Carolina; Bulletin 47, Progress report on ground water in North Carolina; Bulletin 51, Ground water in the Halifax area, North Carolina; Bulletin 55, Geology and ground water in the Greensboro area, North Carolina; Hydrologic data on the Neuse River Basin, 1866-1945; and Hydrologic data on the Cape Fear River Basin, 1820-1945.

The Yadkin-Pee Dee basin is within two major physiographic provinces, the Piedmont province and the Coastal Plain province, which differ greatly in topography, geology, and ground-water conditions. About two-thirds of the basin, including nearly all of the Yadkin River drainage, is in the Piedmont province. The other one-third, which includes the drainage of Lumber and Waccamaw Rivers, is in the Coastal Plain province. The two provinces are separated by a belt known as the fall zone, in which the geology and topography of the Piedmont gives way to the geology and topography of the Coastal Plain.

Ground water is one of the most important natural resources in the Yadkin-Pee Dee Basin. It is the source of supply for 38 towns and cities and for many industrial and most domestic purposes in the basin.

Although systematic investigations have been completed in only a small part of the basin, much hydrologic and geologic information has been obtained in most of it. The report summarizes that information.

1/ Geologist, Ground Water Division, U. S. Geological Survey.

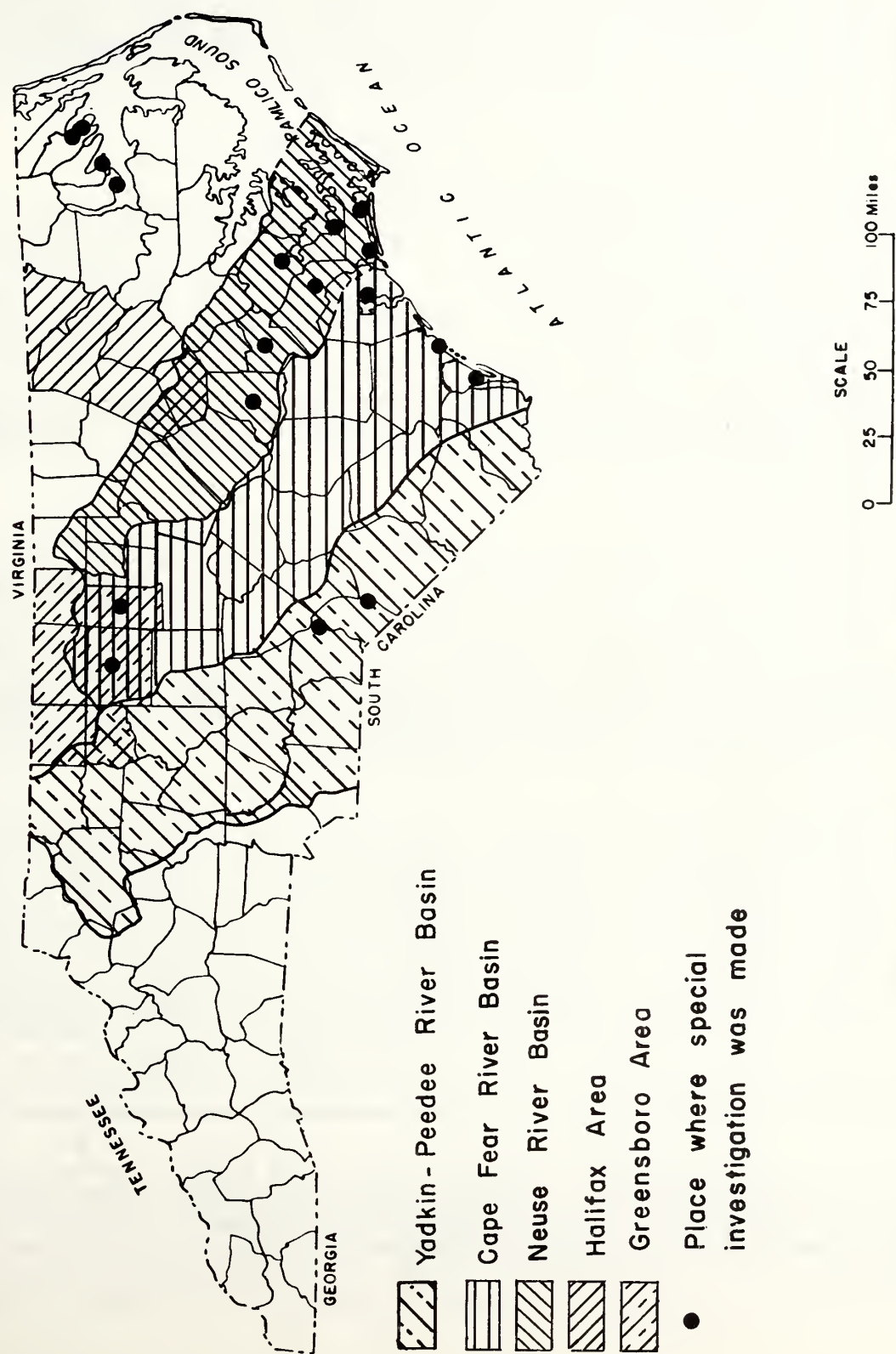


FIGURE 1

Map of North Carolina showing where ground-water investigations have been made.

Information concerning the wells in this report came from the files of the U. S. Geological Survey in Raleigh. Wells on file are numbered consecutively by counties but inasmuch as a part of each county included in this report lies outside the Yadkin-Pee Dee River basin only those wells within the basin are listed. Consequently, the omitted wells lie outside the Yadkin-Pee Dee Basin.

#### Occurrence and movement of ground water

The source of ground water is precipitation as rain or snow. Part of the water that falls on the earth's surface enters and moves through the soil. In the unconsolidated sedimentary formations of the Coastal Plain it moves through the openings between the grains of soil, sand, and clay. In the crystalline and consolidated rocks of the Piedmont it moves chiefly through joints and other fractures and along cleavage planes.

Ground water generally moves under the influence of gravity and the point of discharge is always at a lower level than the point of recharge. In North Carolina recharge occurs in interstream areas and the natural discharge is into streams, lakes, swamps, and the sea.

Rain falling on the land surface percolates downward through the earth until it reaches the zone of saturation, below which the pores and openings of the rock are completely filled with water. The surface of the zone of saturation is called the water table, and in the Yadkin-Pee Dee River Basin it generally is from a few feet to about 60 feet below the land surface. Discharge of ground water is a continuous process, though the rate varies from time to time. Thus the ground-water levels decline except when the rate of recharge from precipitation equals or exceeds the rate of discharge. As the recharge rate seldom exactly equals the discharge rate, the water table is usually a fluctuating surface.

Fluctuations of the water table.— Because the source of the ground water is precipitation, the water table fluctuates approximately with the amount of rainfall. The correlation of water-level fluctuation with changes in rainfall is complicated by a number of factors. The proportion of rainfall that runs off in streams, evaporates, is transpired by plants, or reaches the water table is determined by the intensity and duration of the rainfall, the character and condition of the surface material on which the rain falls, and the temperature, humidity and movement of the air. In North Carolina the water table generally declines during the summer and autumn months in spite of heavy rainfall, because large amounts of water are lost by evaporation and transpiration. In the winter and spring months the water level generally rises, although rainfall is less, because evaporation and transpiration losses are greatly reduced.

Significant fluctuations of the water table may also be caused by discharge from wells. Thus, while a well is being pumped, the water table around it may be appreciably lowered. When pumping stops the water table will rise to its normal static level.

Observations of the fluctuations of the water level in two wells in the Piedmont area were begun in 1934, and in two wells in the Coastal Plain in 1944. The records of all measurements up to and including 1944 are contained in U. S. Geological Survey Water-Supply Papers 777, 817, 840, 845, 886, 907, 937, 945, 987, and 1017. Records for subsequent years are on file and are being prepared for publication. Measurements of the depth to the water level below land-surface, were made near the end of each month, and are given in the following tables:

#### Columbus County

C-1. Mrs. C. W. Maultsby well. Whiteville. Dug well; depth 10.5 feet; diameter 36 inches.

Water level near end of month; in feet below land-surface datum

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1944	----	----	----	----	----	----	5.32	7.16	7.56	6.84	6.87	7.40
1945	6.22	----	7.10	8.69	9.01	5.38	5.20	5.19	3.65	----	----	1.84
1946	3.49	----	5.75	4.72	6.33	7.74	5.80	3.94	6.76	7.21	6.37	6.49

#### Davie County

D-1. Kurfee well. Mocksville. Dug well; depth 32 feet; diameter 36 inches.

Water level near end of month; in feet below land-surface datum

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1935	20.50	19.92	18.08	17.40	18.60	19.97	20.96	22.11	22.76	23.91	24.24	24.64
1936	19.95	17.90	16.31	16.46	17.90	19.38	20.51	21.47	21.88	21.25	22.27	19.55
1937	16.47	16.76	17.09	17.23	17.34	18.31	19.55	19.94	20.58	20.13	20.24	20.79
1938	19.77	----	19.16	19.59	20.57	21.16	20.58	----	22.54	23.58	23.55	22.58
1939	21.70	17.01	17.38	18.13	19.43	20.72	21.77	22.53	23.78	24.67	25.49	25.89
1940	25.42	24.38	22.93	21.24	21.16	21.83	22.01	21.13	22.71	24.26	24.32	24.45
1941	23.50	22.50	21.37	20.75	21.98	23.36	23.61	24.70	25.92	26.86	27.15	27.65
1942	28.46	27.27	24.46	23.87	23.67	23.82	24.70	25.52	26.44	26.90	27.16	26.92
1943	24.05	22.08	19.72	19.56	20.52	21.62	21.68	23.04	24.32	25.56	26.43	26.81
1944	26.63	24.71	19.51	18.48	19.29	20.70	21.78	22.61	21.38	21.17	21.55	20.13
1945	19.35	17.49	17.95	18.44	18.16	19.45	20.49	21.30	19.41	18.71	20.06	----
1946	16.71	16.50	17.07	17.70	17.31	18.48	19.58	20.48	21.43	22.23	22.76	23.03

#### Moore County

M-1. Pure Oil Station well (formerly owned by the Citizens Band and Trust Co. Pine Bluff. Dug well; depth 46.5 feet; diameter 24 inches.

Water level near end of month; in feet below land-surface datum

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1944	----	----	----	33.35	33.27	33.26	33.20	32.97	32.91	33.18	33.42	33.65
1945	34.07	33.72	36.64	37.81	40.36	42.34	43.39	43.27	33.49	33.58	33.52	32.90
1946	33.33	33.53	33.71	33.81	33.91	34.09	34.70	33.72	33.84	33.98	35.47	38.24

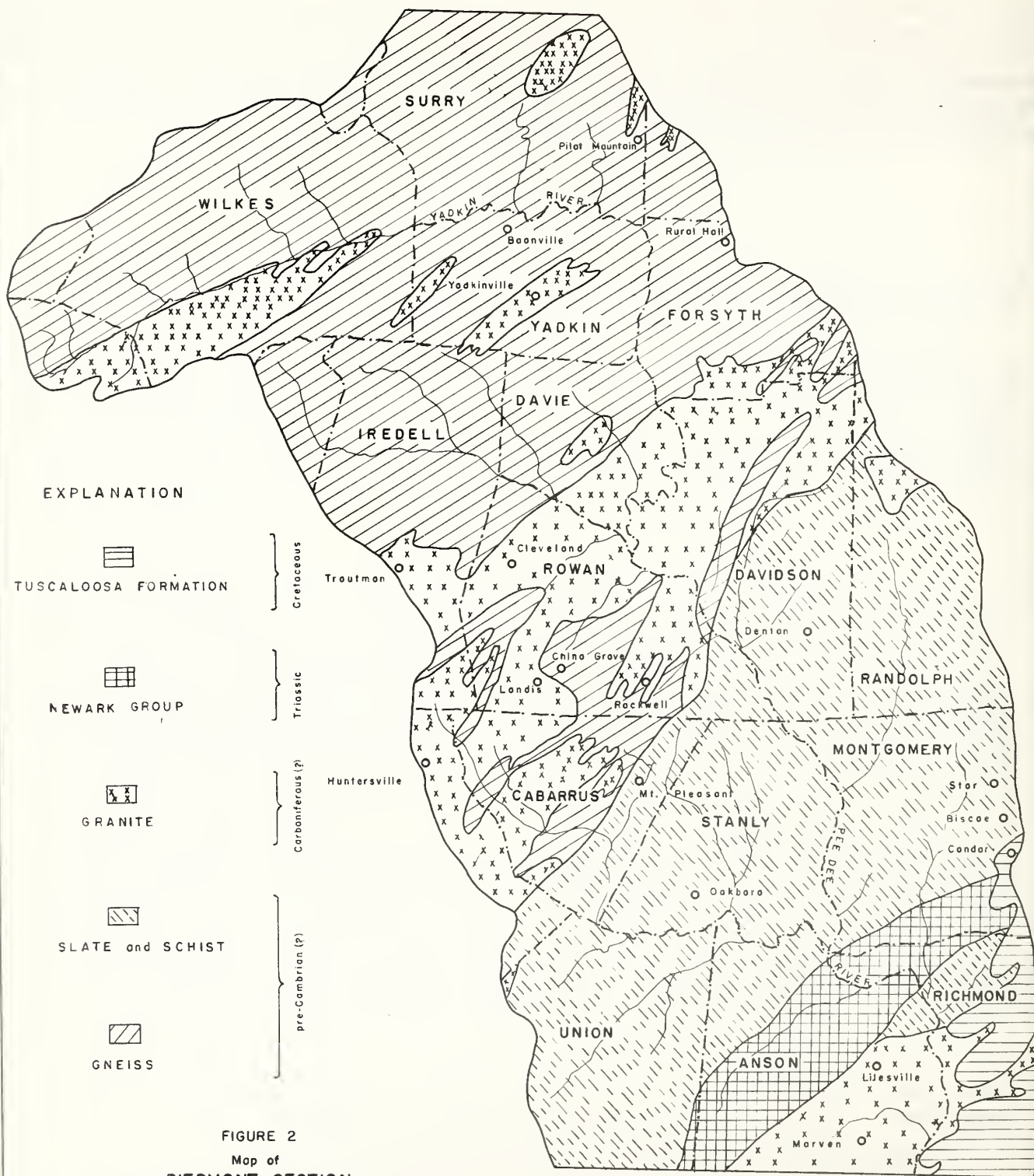
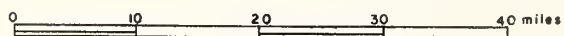


FIGURE 2  
Map of  
PIEDMONT SECTION  
YADKIN-PEEDEE RIVER BASIN  
of  
NORTH CAROLINA

showing the geology and municipal ground-water supplies

Scale



# EXPLANATION

## Geologic Formations in the Piedmont area of the Yadkin-Pee Dee Basin

Age		Formation	Description	Water-bearing properties
Mesozoic	Triassic	Neward group	Sandstones, shales, mudstones, conglomerates, and arkoses, consolidated by compaction and cementation.	Ground water moves chiefly through fractures and joints. Small yields at most places, larger yields are obtained where the rock has more fractures and joints. Continuous yields of 25 to 30 gallons a minute available only at favorable locations. Water generally soft, but that from some wells is moderately hard to hard.
	Carboniferous	Granite	Light-gray to pink, coarse-grained or porphyritic, massive to greatly sheared rock.	Ground water occurs in shear zones and fractures. Massive granite yields small amounts of water; sheared phases yield larger amounts. Wells at favorable locations yield 30 to 50 gallons a minute. Water generally soft or only moderately hard.
Proterozoic	Pre-Cambrian(?)	Slate and schist	Metamorphosed lavas, tuffs, breccias, and shales, gray, blue, green, and brown in color. Schistosity and cleavage slightly to highly developed. At places, bedding planes very prominent.	Some schists and slates are very good aquifers yielding 50 to 75 gallons a minute at places. Where cleavage or schistosity is not well developed, yields are much less. The water at most places is soft, and at some places has a high iron content.
	Pre-Cambrian	Gneiss	Quartz-mica gneiss, quartz-mica-feldspar gneiss, and mica schist. Banding and schistosity usually well developed.	Yields of 40 to 50 gallons a minute are obtained where the schistosity, cleavage, and shear planes are well developed. Small yields are obtained from wells drilled at unfavorable locations.

## Surry County

S-1. A. D. Terrell well. Four miles south of Dobson, 1.8 miles east of Fairview, about 0.5 mile north of State Highway 268, and 50 feet west of county road. Dug well; depth 55 feet; diameter 60 inches.

Water level near end of month; in feet below land-surface datum

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1938	----	----	----	----	----	----	----	----	44.50	44.87	45.32	45.65
1939	45.90	46.16	46.62	46.77	46.72	46.38	46.02	45.85	45.98	46.18	46.55	46.90
1940	47.27	47.56	47.89	47.82	48.25	48.69	48.58	48.25	48.48	48.32	48.10	47.97
1941	47.99	48.09	48.20	48.28	48.41	48.48	48.51	48.65	48.47	48.80	48.84	48.83
1942	48.87	48.88	48.85	48.84	48.72	48.85	48.84	48.48	47.77	47.62	47.55	47.36
1943	47.00	47.35	47.19	46.55	45.39	44.48	43.96	44.12	42.74	42.98	43.29	43.22
1944	44.35	44.75	45.02	45.42	45.42	44.96	44.72	44.38	41.18	42.18	42.32	42.45
1945	42.37	42.25	41.97	41.35	41.14	40.68	40.59	40.87	40.28	41.35	42.07	42.52
1946	43.08	43.16	42.59	41.85	41.25	40.78	40.45	40.36	40.60	40.99	41.55	41.13

## Geology and ground-water resources of the Piedmont area

The Piedmont area of the Yadkin-Pee Dee River Basin includes parts of all of Wilkes, Yadkin, Surry, Stokes, Forsyth, Davie, Iredell, Alexander, Rowan, Davidson, Randolph, Cabarrus, Stanley, Mecklenburg, Union, Anson, Richmond, and Montgomery Counties. The rocks of this area include granites, gneisses, schists, slates, and consolidated sedimentary rocks. These rocks crop out in belts trending roughly northeastward across the basin. The areal geology of the Piedmont section of the basin, shown in figure 2, is based, in part, on field observations by J. L. Stuckey,<sup>1/</sup> State Geologist, and the writer, and in part, on the geologic map of North Carolina.<sup>1/</sup> The geology of only small portions of the area has been mapped in detail, and the geology as shown in this report is somewhat generalized. The age of most of the formations is uncertain. Most of the gneisses, slates are considered to be of pre-Cambrian age, although many of these rocks so considered may be younger. Most of the granite has generally been considered to be of Carboniferous age, but some of the granite (and other associated intrusives) may be older. Sedimentary deposits of Triassic age cross the Pee Dee River in Anson County. ◇

In the crystalline and consolidated sedimentary rocks of the Piedmont section, ground water occurs in and moves along joints and other fractures, cleavage and bedding planes, and planes of schistosity. Because drilled wells obtain their water from these openings, the wells that encounter the most and largest openings usually yield the largest supplies of water. The productiveness of the rocks varies greatly not only from one type of rock to another, but also from place to place within each rock type. Data obtained to date indicate that the schists included in the slate belt are the best aquifers, the gneisses probably are not as good, the granites even less satisfactory, and rocks of Triassic age probably the poorest of the major aquifers in the Piedmont.

<sup>1/</sup> Geologic map of North Carolina, N. C. Dept. Cons. and Devel., 1937

One of the most important problems in the development of groundwater in the Piedmont is the selection of the best possible location for drilling a well to obtain the maximum quantity of water. Factors to be considered in selecting a well site include texture of the rock, amount and kind of jointing, fracturing, shearing, bedding planes, cleavage and schistosity, veins, dikes, topographic location, and thickness of the weathered mantle.

The coarser-textured rocks generally are more productive than the finer-textured ones, probably because fracturing or shearing of the coarse-grained rocks produces larger openings than they do in fine-grained rocks. Wells drilled where openings along joints, fractures, and shearing planes are closely spaced usually are more productive than wells drilled where they are widely spaced. In rocks of sedimentary origin, important openings may occur along bedding planes. In metamorphic rocks, whether they are of sedimentary or igneous origin, planes of cleavage and schistosity are important in the occurrence and movement of groundwater. Places where these planes are prominent and closely spaced generally are more productive than places where they are widely spaced.

Quartz veins form avenues for the storage and movement of ground water and thus are an important factor in locating productive wells. Quartz is a hard, brittle mineral which fractures easily and breaks into relatively large, irregular fragments when subjected to earth stresses. Ground water can usually move more readily through quartz veins than through the adjacent rock. Wells intersecting one or more quartz veins generally are much more productive than wells that do not.

Dikes are wall-like intrusive bodies of lava which were injected into crevices in the adjacent rock when the lava was molten. Generally the adjacent rock has been considerably fractured and broken during the injection. Most wells drilled near dikes yield considerably more water than wells drilled into undisturbed rock some distance away. However, in most dikes the rock itself does not yield much water.

The rocks of the Piedmont area at most places are very deeply weathered; at many places the thick layer of weathered material forms such an extensive cover over the underlying rock that little direct evidence is available regarding fracturing, cleavage, and the presence of veins and dikes. The topography, however, frequently gives indirect evidence regarding these features. In an area being actively worn down by erosion, as is the Piedmont of North Carolina, hills are left because the materials of which they are made are relatively resistant to erosion. Valleys, "draws" (small valleys or gullies), and similar depressions are formed where the rocks are less resistant. At many places this lower resistance is the result of greater fracturing of the rock, which permits circulation of ground water and promotes chemical decay of the rock. Obviously these lower places are more favorable for drilling wells than are the hills, which are usually underlain by less-fractured rock. Also, the natural movement of the ground water is into the depressions and away from the hills. In the Greensboro area the average yield of wells drilled in topographic depressions was more than three times as large as the yield of wells drilled on hills.

The thickness of the weathered rock (saprolite) is important. In the Greensboro area the average yield of wells in which the weathered mantle was 30 feet or less in thickness was about 8 gallons a minute. The average yield of wells in which the

thickness of mantle ranged from 31 to 65 feet was about 17 gallons a minute, and the average yield of wells in which the thickness of mantle was 66 feet or more was about 25 gallons a minute. The thick layer of saprolite stores large quantities of water which moves into the fractures of the underlying rock when the well is pumped.

Water from wells in the Piedmont generally is soft to only moderately hard and is moderately low in dissolved solids. Many wells yield water with little or no iron but some waters contain objectionable amounts of iron. The temperature of the water ranges from about 58° to 64° F.

Gneiss and schist (pre-Cambrian ?).— The gneiss and schist occur in the northwestern half of the Piedmont section of the Yadkin-Pee Dee Basin and closely underlie or crop out in about a third of the total area of that section. The rocks are chiefly quartz feldspar mica gneiss and quartz mica schist.

The average yield of 50 wells in this unit in the Yadkin-Pee Dee Basin is 71 gallons a minute. It appears to be the most prolific aquifer in the Piedmont section of the State. Probably the great depth to which the rocks have generally been weathered is one of the chief reasons that this unit affords such comparatively large yields. Wells in this unit appear to yield larger supplies near the foot of the Blue Ridge than farther southeastward in the Piedmont.

Slate and schist (pre-Cambrian ?).— This rock underlie about one-third of the Piedmont section of the Yadkin-Pee Dee River Basin, occurring entirely in the southeastern half of that section of the basin. These rocks are chiefly of volcanic origin; some are lava flows and others are pyroclastics, all highly metamorphosed during folding that occurred subsequent to their deposition. Some of the schists, particularly those in the eastern belt, originated as water-laid sediments in which considerable sand and clay was intermingled with volcanic ash.

Weathering of the slate and schist in this area generally is not as deep as in the Cape Fear River Basin, and possibly, in part, because of this the yields of wells are not as large. The average yield of 37 wells in these rocks is 43 gallons a minute, which is much less than in the Neuse River and Cape Fear River Basins. Over much of the area the slates have low dips, and this factor, together with the shallow weathering, appears to be the chief reason for the lower yields.

Quartz veins in the rocks are relatively permeable aquifers. Probably the most satisfactory wells drilled into the slates and schists are those that penetrate one or more of these veins. Topographic location and thickness of weathered mantle also are important factors in selecting a well site in these rocks.

Granite (Carboniferous ?).— The granite crops out in irregular areas within the gneiss and in one area within the slate and schist in the southern corner of the Piedmont section of the basin. The principal area extends from Mecklenburg through Cabarrus, Rowan, Davie, and Davidson Counties. At most places it is a coarse-grained pinkish-gray gneissic biotite granite, which has undergone considerable metamorphism and is greatly sheared. Ground water occurs in the granite chiefly in joints and fractures and along shear zones. Horizontal joints transmit much of the ground water, and because they decrease in number with depth, progressively less ground water is obtained with increasing depth. At places where the granite has been

considerably sheared and fractured, wells yield moderate supplies of ground water, but in areas of slightly or less sheared granite little or no water can be obtained. The average yield of 37 wells drilled into granite in the Yadkin-Pee Dee River Basin is 23 gallons a minute. The average yield of wells to be drilled in the future can be increased considerably by careful selection of drilling locations, basing the choice on geologic and topographic evidence. The number and size of joints and fractures in granite decrease rapidly with increasing depth, and most wells obtain a large proportion of their water at relatively shallow depth. Drilling beyond 250 or 300 feet is rarely advisable.

Newark group (Triassic).— The Triassic rocks assigned to the Newark group crop out in a belt extending southwestward from Moore County across the southeastern corner of Montgomery County and the northwestern corner of Richmond County through the central part of Anson County. The rocks consist chiefly of red, yellow, or brown arkosic and argillaceous sandstones, shales, mudstones, and conglomerates. They were deposited as interbedded lenses in a subsiding inland basin or trough. The rocks have been indurated by compaction and cementation so that the pores between the grains are largely filled. Thus little ground water circulates through the rocks except along fractures and bedding planes. At many places these rocks are poor aquifers, but at a few places in the Yadkin-Pee Dee Basin they furnish moderate supplies. The coarser-grained strata usually yield larger supplies than do the finer-grained strata, because fracturing tends to create larger openings. Where the strata are greatly fractured, good yields from wells in them are usually obtained through wells. The many diabase dikes which have been injected into the Triassic rocks have broken the adjacent strata, and wells drilled near these dikes generally yield much more water than wells drilled farther away. Wells drilled in the conglomerate along the eastern margin of the belt also usually have better-than-average yields. The yields of many wells decline greatly after long periods of pumping. The reason may be that the water stored in the small pores in the rock near the well moves readily into crevices and thence into the well under the high gradients existing in its near vicinity, but this water is replaced only slowly by lateral flow through the pores from greater distances. Therefore, after nearby storage in the rocks is exhausted, most of the water flowing into the well must travel through joints and fractures.

#### Public ground-water supplies in the Piedmont section

Water supplies for 18 municipalities in the Piedmont section of the Yadkin-Pee Dee River Basin are taken from the ground-water reservoirs. They serve a population of 14,295 (1940 census).

Biscoe, in Montgomery County, obtains its water from three drilled wells ranging in depth from 178 to 336 feet and in yield from 16 to 75 gallons a minute. The wells end in slate.

Boonville, in Yadkin County, obtains water from a single drilled well which is 251 feet deep. The well yields 75 gallons a minute and ends in gneiss.

Candor, in Montgomery County, obtains water from three drilled wells. One is 170 feet deep and ends in slate; the others are 65 and 70 feet deep and end in sand and gravel of the Tuscaloosa formation. Yields range from 10 to 23 gallons a minute.

China Grove, in Rowan County, obtains water from three wells drilled into gneiss. The wells range in depth from 319 to 750 feet and in yield from 40 to 90 gallons a minute.

Cleveland, in Rowan County, obtains water from a drilled well 187 feet deep which ends in granite.

Denton, in Davidson County, obtains its water supply from four wells drilled into slate, ranging in depth from 200 to 400 feet, and in yield from 15 to 55 gallons a minute.

Huntersville, in Mecklenburg County, obtains its water supply from four wells drilled into diorite and granite. The wells range in depth from 70 to 210 feet and in yield from 5 to 35 gallons a minute.

Landis, in Rowan County, obtains its water from two wells, 406 and 604 feet deep, drilled into granite and which yield respectively 30 and 60 gallons a minute.

Lilesville, in Anson County, obtains its water supply from a well drilled 290 feet deep, into granite, which yields 40 gallons a minute.

Morven, in Anson County, has two wells drilled into slate. The wells are 158 and 190 feet deep and yield, respectively, 40 and 30 gallons a minute.

Mount Pleasant, in Cabarrus County, obtains its water supply from four drilled wells which range in depth from 200 to 350 feet and in yield from 30 to 50 gallons a minute. These wells are drilled into greenstone schist, which is part of the slate and schist unit.

Oakboro, in Stanley County, has two drilled wells, 100 and 108 feet deep, yielding 75 and 65 gallons a minute respectively. These wells end in slate.

Pilot Mountain, in Surry County, obtains water from three drilled wells in gneiss and schist. The wells are 384, 406, and 457 feet deep and yield, respectively, 100, 150, and 250 gallons a minute.

Rockwell, in Rowan County, gets its water from a well 144 feet deep, which ends in slate, and yields 100 gallons a minute.

Rural Hall, in Forsyth County, obtains water from a drilled well 350 feet deep which ends in gneiss, and yields 125 gallons a minute.

Star, in Montgomery County, has four wells which range in depth from 180 to 313 feet deep, and yield from 30 to 168 gallons a minute. The wells are drilled into slate.

Troutman, in Iredell County, has two drilled wells, 500 and 560 feet deep, which yield respectively 25 and 60 gallons a minute. The wells are in gneiss.

Yadkinville, in Yadkin County, obtains its water supply from three drilled wells which range in depth from 267 to 291 feet, and in yield from 10 to 26 gallons a minute. The wells are drilled into mafic rocks, probably diorite.

## Geology and ground-water resources of the Coastal Plain

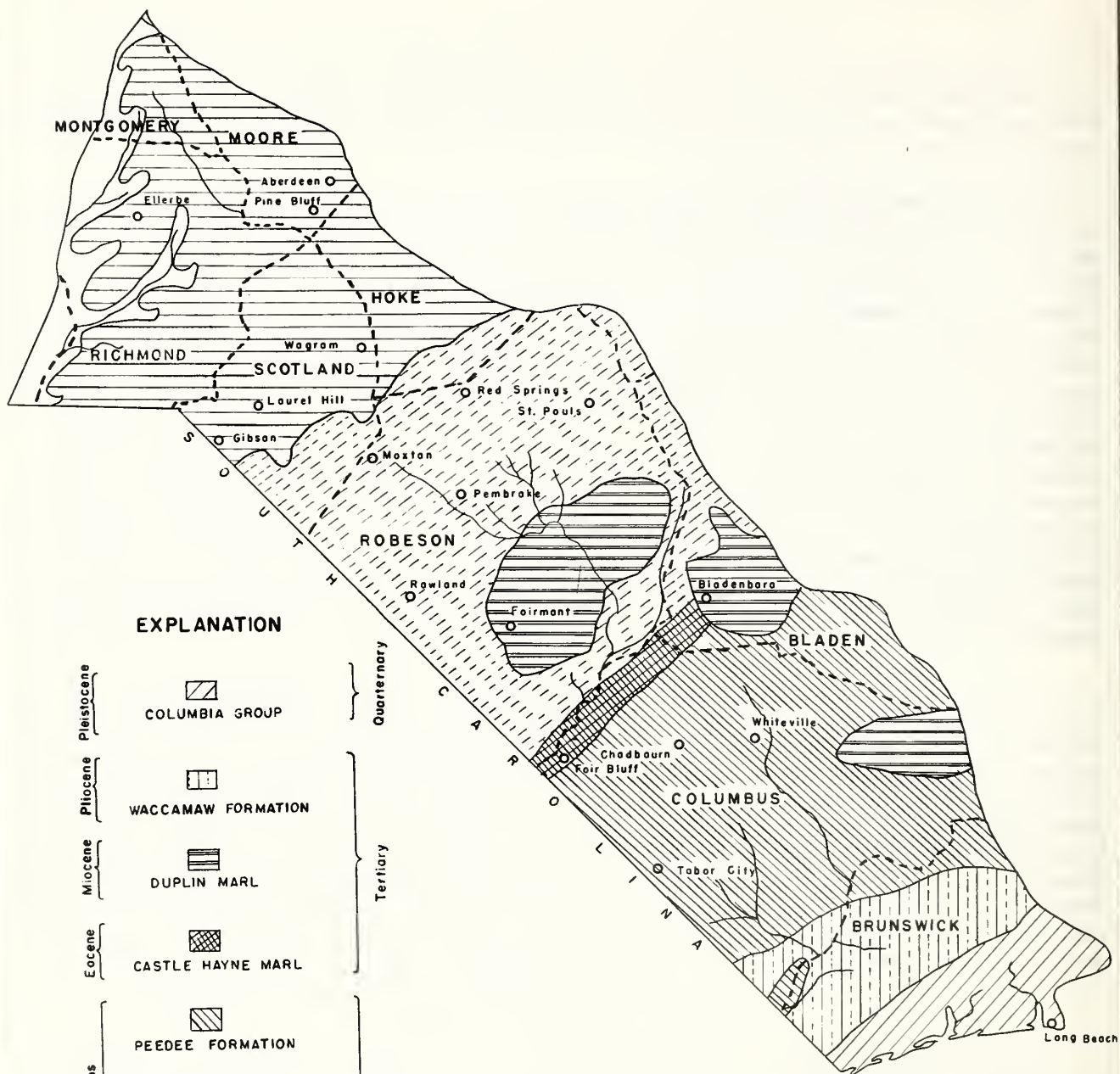
Counties partly or entirely within the Coastal Plain section of the Yadkin - Pee Dee River Basin include Montgomery, Richmond, Moore, Hoke, Scotland, Robeson, Bladen, Columbus, and Brunswick.

The formations of the Coastal Plain are very different from the hard rocks found in the Piedmont section of the Cape Fear Basin. They constitute a southeastward-thickening wedge overlying hard rocks, the subsurface extension of the rocks in the Piedmont. In contrast with the consolidated sediments and crystalline rocks of the Piedmont, the formations in the Coastal Plain consist of beds of unconsolidated and semiconsolidated sand, clay, marl, shale, and some limestones and occasional sandstone layers. The formations crop out as belts trending northeastward, approximately parallel to the coast line and dipping at a low angle to the southeast. The dip is slightly greater than the slope of the land surface, so that younger formations crop out successively to the southeast. At the Fall Zone, which marks the boundary between the Piedmont and the Coastal Plain, the erosion surface formed on the crystalline rocks and the Triassic sandstone and shale dips coastward beneath the unconsolidated and semiconsolidated sedimentary deposits of the Coastal Plain. The slope of this basement-rock surface is only a few feet per mile in the inner half of the Coastal Plain but it increases to 15 or 20 feet per mile near the coast, so that, in general, each stratum of the Coastal Plain sediments becomes progressively thicker toward the coast.

In most parts of the Coastal Plain, except the area immediately southeast of the Fall Zone where the strata are thin, the sediments yield large quantities of water to wells. The total potential ground-water supply in the Coastal Plain section of the Yadkin-Pee Dee Basin is several hundred million gallons a day, and individual supplies of several million gallons daily can be obtained at many places. Wells capable of yielding 1,000 gallons a minute or more have been drilled at a number of places. The water from the northwestern two-thirds of the Coastal Plain area is soft and low in dissolved solids, but at many places it contains objectionable quantities of iron. Near the coast most ground waters are hard. Salt water generally is found at depths of about 250 to 300 feet near the coast. Farther inland the depth to salt water is much greater. Ground-water temperatures range from about 62° to 65° F.

### Upper Cretaceous series

Tuscaloosa formation.- The basal sedimentary formation of the Coastal Plain in this area is the Tuscaloosa formation, which lies directly upon the irregular surface of the basement rock. The strata consist of red, yellow, brown, purple, gray and white sands, clays and some gravel. The sands and gravels are somewhat clayey at many places. The clay often contains considerable sand and is usually micaceous. The strata are generally lenticular, so that individual layers cannot be traced for any considerable distance. The Tuscaloosa formation dips southeastward 8 or 10 feet per mile in its area of outcrop, but the dip increases gradually to the southeast and is about 20 feet per mile near the coast. The formation thickens from a feather edge along the Fall Zone to about 300 feet where it passes beneath the Black Creek formation. Farther down dip it apparently becomes thinner and at Fort Caswell it is only about 85 feet thick. Some of the sand strata in the Tuscaloosa contain too much clay to be very permeable, but clean, permeable sands occur in some places wherever the formation is present. The Tuscaloosa is one of the best aquifers in the



### EXPLANATION

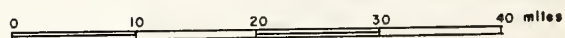
Pleistocene		COLUMBIA GROUP	Quaternary
Pliocene		WACCAMAW FORMATION	Tertiary
Miocene		DUPLIN MARL	
Eocene		CASTLE HAYNE MARL	
Upper Cretaceous		PEEDEE FORMATION	Cretaceous
		BLACK CREEK FORMATION	
		TUSCALOOSA FORMATION	

FIGURE 3

Map of  
COASTAL PLAIN SECTION  
YADKIN-PEEDEE RIVER BASIN  
NORTH CAROLINA

showing the geology and municipal ground-water supplies

Scale



# EXPLANATION

## Geologic Formations in the Coastal Plain area of the Yadkin-Pee Dee Basin

		Age	Formation	Description	Water-bearing properties
Cenozoic	Quaternary	Pleistocene	Pleistocene deposits	Clay, sandy clay, silty sands, with some clean sand and gravel. Deposits generally not more than 20 feet thick.	Many domestic wells obtain satisfactory supplies. Larger supplies available by using groups or batteries of wells. Water soft and low in dissolved solids at most places, but at many places contains considerable iron.
		Pliocene	Waccamaw formation	Sand and shell marls 20 to 25 feet thick.	A few domestic supplies obtained from this formation, but no large supplies. Water generally hard.
	Tertiary	Miocene	Duplin marl	Calcareous clay, sandy marls, sands and limestone. Strata are a few feet to about 50 feet thick.	A number of domestic supplies and a few small industrial supplies are obtained from it. Water generally hard; at many places contains iron.
		Eocene	Castle Hayne marl	Sandy marls, sandy limestone, and limestone. Maximum thickness about 175 feet; dip 8 to 10 feet per mile.	Large quantities of water available in southern Brunswick County. Yields of several hundred gallons a minute probable at many places. Water generally hard.
Mesozoic	Cretaceous	Upper Cretaceous	Pee Dee formation	Marine clays, sands, marls, and limestones, dipping southeastward 10 to 15 feet per mile.	Yields large quantities of water to drilled wells in Bladen, Columbus, and Brunswick Counties. Water generally rather hard and low in dissolved solids; at places near the coast it may be brackish.
			Black Creek formation	Black laminated clays and interbedded fine- to medium-grained gray sands. Dips southeast 10 to 15 feet per mile.	Yields moderate to large supplies to many wells in area of outcrop and in area extending about 20 miles to southeast. Wells yield 300 to 500 gallons a minute each at many places.
			Tuscaloosa formation	Lenticular deposits of sand, gravel, and clay. Strata range from a few feet to 400 or 500 feet in thickness	Yields moderate to very large supplies of water in area of outcrop and to the southeast. Wells yield up to 1,000 gallons a minute. Soft water, low in dissolved solids, at places contains considerable iron.

Coastal Plain and will yield several hundred gallons a minute to wells at almost any place except along the northwestern margin, where it is thin. Wells yielding 500 to 1,000 gallons a minute have been drilled at a number of places, although none yielding that much have been drilled in the Yadkin-Pee Dee Basin. Two towns in this basin obtain their water supply from the Tuscaloosa formation. The average yield of the 24 wells listed in this report, which draw from the Tuscaloosa formation, is 261 gallons a minute. The potential supply from the Tuscaloosa is many times the amount now being utilized.

Water from this formation generally is soft and low in concentration of dissolved solids. At some places, however, the water contains objectionable amounts of iron. Analyses of samples from Robeson County well 14 and Scotland County well 21 are representative of water from the Tuscaloosa formation, although the nitrate in well 21 is unusually high.

Black Creek formation.— The Black Creek formation crops out in a belt south-east of the outcrop belt of the Tuscaloosa formation. Farther southeast the Black Creek is overlain by the Pee Dee formation. The lower part of the Black Creek formation consists typically of black laminated clays and interbedded fine-grained gray sands. Lignitized wood is a common constituent of these strata. At some places red and yellow sands and clays resembling those of the Tuscaloosa formation are found in the Black Creek formation. In the upper part of the Black Creek formation the strata consist of sands and clays interbedded with marls and thin layers of calcareous sandstones and shell rock. The dip of the formation ranges from about 5 to 20 feet per mile. The maximum thickness probably is about 350 feet.

The Black Creek formation is an excellent aquifer at most places; the potential supply from this formation is many million gallons a day, of which only a small part is being utilized. The 19 wells tabulated in this report yield an average of 200 gallons a minute and several hundred gallons a minute can be obtained at many places. The area in which wells can obtain water from the Black Creek formation extends from its western limit of outcrop eastward to within 10 or 15 miles of the coast. Beyond that point the water probably is too brackish for use. Water from the lower part of the formation generally is soft and low in concentration of dissolved solids but that from the upper part is considerably harder. At some places the water contains objectionable quantities of iron. Analyses 8, Bladen County, and 11, 12, 13, 15, 16, Columbus County, are of water from the Black Creek formation.

Pee Dee formation.— The Pee Dee formation overlies the Black Creek formation and crops out in a belt to the southeast. It consists of marine sands, clays, marls, and limestones. Some of the strata contain shells and many of them are glauconitic. The dip of the formation ranges from 5 to 15 feet per mile and the maximum thickness probably is about 900 feet. The Pee Dee formation is an excellent aquifer at most places. Wells capable of yielding several hundred to more than a thousand gallons a minute have been drilled at a number of places. The average yield of 7 wells tabulated in this report is 393 gallons a minute. The area in which water supplies can be obtained from the Pee Dee formation extends from its northwestern limit of outcrop to the coast, although immediately adjacent to the coast the water may be too brackish for use. The water from the Pee Dee formation

generally is rather hard but low in dissolved solids. Analyses 5 and 18, Columbus County, are of water from this formation.

#### Eocene series

Castle Hayne marl.— The Castle Hayne marl, of upper Eocene age, overlies the Pee Dee formation across the southeastern half of Brunswick County. However, it crops out only in a small area along the northeastern margin of the Yadkin-Pee Dee Basin as at most places it is overlapped by younger strata. The dip of the formation is only a few feet per mile and the thickness at Fort Caswell is 176 feet.

The Castle Hayne marl consist of sand, sandy marl, sandy limestone, and limestone. It yields large quantities of water at a number of places, the best aquifers being porous limestone and shell-rock strata. The one well listed in this report yields 360 gallons a minute.

The water usually is hard, and sometimes contains considerable iron.

#### Miocene series

Duplin marl.— The Duplin marl crops out in patches upon the beveled surfaces of the older formations in the Coastal Plain, in Robeson, Bladen, and Columbus Counties. At no place is the formation more than about 50 feet thick.

Some dug wells and a few shallow drilled wells obtain water from the Duplin marl in this basin, but no large supplies are obtained from it. The water generally is hard.

#### Pliocene series

Waccamaw formation.— The Waccamaw formation occurs over a considerable area in central and western Brunswick County and in small patches at a few other places in Brunswick and Columbus Counties. The deposits consist of sands and shell marls and are only about 20 to 25 feet thick.

Some dug and driven wells obtain water from these deposits but it is doubtful whether any drilled wells utilize water from this formation.

#### Pleistocene series

Columbia group.— The area shown as Pleistocene on figure 3 includes only that part of the basin where the Pleistocene is comparatively thick and completely covers all underlying formations. It is only a part of the area actually occupied by Pleistocene deposits, because much of the rest of the Coastal Plain province is covered by a thin veneer of Pleistocene sediments 10 to 25 feet thick, lying unconformably upon all the older formations. The surface of these Pleistocene deposits forms the Coastal Plain terraces. The deposits consist of sandy clay, clayey sand, and some clean sand and gravel.

Many domestic water supplies and a number of industrial supplies are obtained from the Pleistocene deposits. The yield of an individual well is usually small but moderate supplies are obtained through batteries of small-diameter wells.

Supplies up to a million gallons a day can be obtained at some places in the Yadkin-Pee Dee River Basin and smaller supplies can be obtained at many other places. Water from these deposits is generally soft and low in dissolved solids but at many places it contains a considerable amount of iron.

#### Public ground-water supplies in the Coastal Plain area

Ground water supplies 18 municipalities in the Coastal Plain area of Yadkin-Pee Dee River Basin, serving a total population of about 20,000.

Aberdeen, in Moore County, obtains its water from springs issuing from the Tuscaloosa formation.

Bladenboro, in Bladen County, obtains its water from a drilled well 178 feet deep in sand of the Black Creek formation. The well yields 230 gallons a minute.

Chadbourn, in Columbus County, obtains its water from two wells drilled 80 and 107 feet deep in sand of the Pee Dee formation. Each well yields 300 gallons a minute.

Ellerbe, in Richmond County, obtains its water supply from three wells. Two of the wells, 120 feet deep, end in sand of the Tuscaloosa formation and yield 18 and 15 gallons a minute, respectively. The third well, 530 feet deep, ends in slate, and yields 25 gallons a minute.

Fair Bluff, in Columbus County, obtains its water from two wells 83 and 270 feet deep, which end in sand of the Black Creek formation, and yield 100 and 115 gallons a minute, respectively.

Fairmont, in Robeson County, obtains its water from four wells. The main source of supply is a gravel-walled well 380 feet deep, which yields 775 gallons a minute. The water is obtained from sand strata, the upper strata being in the Black Creek formation and the lower being in the Tuscaloosa formation. The other three wells, drilled at earlier dates, are used for emergency supply. Two are 265 feet deep and yield 35 and 60 gallons a minute, and the other is 300 feet deep and yields 120 gallons a minute.

Gibson, in Scotland County, obtains its water from a gravel-walled well in sand of the Tuscaloosa formation. The well is 123 feet deep, and yields 150 gallons a minute.

Laurel Hill, in Scotland County, has a gravel-walled well 120 feet deep that yields 250 gallons a minute. The source of supply is sand strata in the Tuscaloosa formation.

Long Beach, in Brunswick County, has a well 118 feet deep, which is reported to yield 360 gallons a minute. The water is probably obtained from Castle Hayne marl.

Maxton, in Robeson County, has a gravel-walled well 370 feet deep, which yields 500 gallons a minute. The water is obtained from sand strata in the Tuscaloosa formation.

Pembroke, in Robeson County, obtains water from two wells 93 and 117 feet deep drilled into the Black Creek formation, and which yield 100 and 125 gallons a minute, respectively.

Pine Bluff, in Moore County, obtains its water supply from 5 or 6 springs issuing from sands of the Tuscaloosa formation. Average yield of each spring is about 40 gallons a minute.

Red Springs, in Robeson County, obtains its water supply from two gravel-walled wells in the Tuscaloosa formation. One well, 101 feet deep, yields 125 gallons a minute; the other, 206 feet deep, yields 450 gallons a minute.

Rowland, in Robeson County, has two gravel-walled wells, 269 and 250 feet deep which yield 160 and 775 gallons a minute, respectively. The water is drawn from the sand strata belonging to both the Tuscaloosa and Black Creek formations.

St. Pauls, in Robeson County, obtains water from three wells, all about 110 feet deep in sand of the Black Creek formation. Each well yields about 100 gallons a minute.

Tabor City, in Columbus County, has three drilled wells. One well, 210 feet deep with a yield of 80 gallons a minute, is screened in sand of the Pee Dee formation. A second well, 300 (?) feet deep, yields 60 gallons a minute, and probably is screened in the Black Creek formation. The third well, completed in 1948, is a gravel-walled well 340 feet deep, which draws water from sands of both the Black Creek and Pee Dee formations. It yielded 600 gallons a minute when the drawdown was 70 feet during a pumping test.

Wagram, in Scotland County, obtains its supply from 12 wells all 30 feet deep, which draw water from sand in the Tuscaloosa formation. The combined yield is about 56 gallons a minute.

Whiteville, in Columbus County, obtains water from two drilled wells, 263 and 210 feet deep, which yield respectively 600 and 250 gallons a minute. Both wells are screened in sand of the Black Creek formation.

# Analyses of water from wells in the Piedmont section of Yadkin-Pee Dee River Basin

Analyzed by the U. S. Geological Survey  
(Well numbers correspond to the numbers in the tables of well data)  
(Parts per million)

Location	Well no.	Depth (feet)	Aquifer	Date	Silica (SiO <sub>2</sub> )	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Dissolved solids	Total hardness as CaCO <sub>3</sub>
<b>Anson County:</b>																	
Lilesville	1	300	-----	11/14/47	36	0.14	0.00	14	2.5	15	81	5.6	2.9	0.4	0.1	116	45
<b>Cabarrus County:</b>																	
Roberta	70	276	Gabbro	8/18/44	51	.80	----	53	21	17	146	103	19	.3	1.6	366	219
Mount Pleasant	122	250	Slate	8/8/44	35	.30	----	10	3.0	9.2	58	2.3	3.8	.0	2.5	100	37
Kannapolis	36	180	Granite	8/15/44	27	.03	----	4.3	.9	5.2	26	.9	2.0	.0	.8	58	14
<b>Davidson County:</b>																	
Lexington, near	8	212	-----	6/9/48	50	.12	.00	13	6.1	11	90	2.2	3.5	.1	.6	132	58
Thomasville	1	280	-----	6/9/48	21	1.9	.13	94	22	35	106	24	204	.1	.4	477	325
<b>Forsyth County:</b>																	
Bethania, near	2	130	Gneiss	5/21/43	31	0.02	----	5.7	3.1	14	63	3.2	1.2	---	0.0	89	27
Clemmons	164	110	do	5/19/43	29	.03	----	6.7	3.0	1.3	30	3.7	1.2	---	2.2	71	29
Kernersville	124	308	Granite	10/13/42	31	.03	----	23	7.4	7.0	92	17	5.0	0.5	2.0	143	88
Rural Hall	3	350	Gneiss	5/20/43	28	.02	----	22	8.0	7.2	112	9.1	1.5	---	.0	130	88
do	3	350	do	8/19/47	35	.66	0.00	11	4.3	10	77	1.8	1.2	.2	.1	105	45
Winston-Salem	93	714	Gneiss?	10/16/43	22	.03	----	64	24	67	46	10	225	.0	.47	603	258
<b>Iredell County:</b>																	
Troutman	4	410	Gneiss	8/28/48	26	.11	.00	4.6	2.1	6.9	38	1.5	1.5	.1	.2	65	20
<b>Montgomery County:</b>																	
Biscoe	1	178	-----	3/10/48	30	.06	.00	24	5.8	12	115	7.4	4.5	.1	.8	141	84
do	2	209	-----	3/10/48	30	.88	.00	12	5.5	15	88	2.6	6.8	.1	1.1	116	53
do	3	338	-----	3/10/48	52	.65	.21	32	4.1	20	145	7.7	8.5	.2	.0	199	97
Star	4	180	-----	3/10/48	16	.04	.00	2.9	1.2	6.1	18	1.2	4.9	.1	2.8	46	12
do	5	200	-----	3/10/48	14	.20	.00	7.5	1.0	7.0	30	1.4	7.2	.1	2.0	58	23
do	6	300	-----	3/10/48	31	2.2	.22	10	2.0	6.4	40	9.7	2.8	.1	.0	82	33
do	7	313	-----	3/10/48	40	.40	.00	13	1.0	12	70	1.1	2.8	.1	.0	105	37

Analyses of water from wells in the Piedmont section of Yadkin-Pee Dee River Basin  
(Continued)

Location	Well no.	Depth (feet)	Aquifer	Date	Silica (SiO <sub>2</sub> )	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Dissolved solids	Total hardness as CaCO <sub>3</sub>
<b>Richmond County:</b>																	
Ellerbe	1	530	-----	10/28/47	4.8	.31	.00	.7	1.0	4.8	1	.8	4.6	.0	10	33	6
do	2	120	-----	10/28/47	6.1	.16	.00	1.6	1.1	14	1	8.8	15	.0	8.6	61	8
do	3	120	-----	10/28/47	4.7	.13	.00	.8	1.2	7.3	1	.9	5.8	.0	16	40	7
<b>Rowan County:</b>																	
China Grove	1	319	-----	5/22/47	30	.17	.00	57	5.4	12	103	98	3.2	.1	.3	268	164
do	3	714	-----	5/22/47	26	.21	.00	47	4.9	11	111	63	2.5	.2	.0	219	137
Landis	8	406	-----	3/30/48	37	.40	.00	9.4	.6	12	54	3.6	2.2	.2	.1	92	26
do	9	604	-----	3/30/48	23	.06	.00	54	2.0	17	100	86	2.5	2.2	.1	246	143
Rockwell	10	144	-----	3/10/48	27	.09	.00	9.1	1.4	7.0	48	1.7	1.6	.1	.2	71	28
Cleveland	11	187	-----	7/ 6/48	47	.30	.00	38	16	9.5	127	23	25	.1	22	260	161
<b>Stanley County:</b>																	
Oakboro	1	108	-----	7/22/48	32	0.58	.52	51	6.4	16	133	45	22	0.2	0.1	242	155
do	2	100	-----	7/22/48	30	4.2	.57	69	10	21	166	31	64	.2	.1	313	213
<b>Stokes County:</b>																	
Pinnacle	61	80	-----	10/26/44	28	.22	---	6.0	2.8	7.8	42	1.1	4.6	.0	1.6	76	26
<b>Surry County:</b>																	
Pilot Mountain	2	384	-----	6/24/47	33	3.7	.00	19	3.7	12	93	6.3	2.5	.5	.0	123	63
do	3	406	-----	6/24/47	32	.12	.10	17	2.9	10	80	7.0	1.8	.4	.0	113	54
<b>Yadkin County:</b>																	
Jonesville	5	484	-----	12/5/47	20	.18	.34	14	2.5	8.0	65	5.8	1.5	.4	.1	69	45
Yadkinville	3	286	-----	6/26/47	26	.31	.10	19	2.8	9.8	72	13	4.8	.3	.2	112	59
do	1	267	-----	6/26/47	20	.11	.00	4.3	.7	35	93	8.4	2.0	.5	.1	117	14
<b>Cabarrus County:</b>																	
Concord	88	612	Granite	8/10/44	---	---	---	---	---	---	216	36	128	0.3	---	---	279
Kannapolis	27	135	-----	8/15/44	---	0.22	---	---	---	---	270	26	24	.2	---	---	258
Midland	151	208	Slate	8/31/44	---	---	---	---	---	---	258	120	101	---	---	---	378
Mount Pleasant	123	200	do	8/ 8/44	---	---	---	---	---	---	171	10	12	.1	---	---	138
<b>Iredell County:</b>																	
Statesville	1	503	Gneiss	11/30/43	---	.18	---	---	---	---	78	14	1	.1	---	---	68

Analyzed by the U. S. Geological Survey  
(Well numbers correspond to the numbers in the tables of well data)  
(Parts per million)

Location	Well no.	Depth (feet)	Aquifer	Date	Silica (SiO <sub>2</sub> )	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Dissolved solids	Total hardness as CaCO <sub>3</sub>
<b>Bladen County:</b>																	
Bladenboro	8	178	---	6/23/47	40	0.31	0.00	14	2.4	15	85	1.1	3.6	0.4	0.1	123	45
<b>Columbus County:</b>																	
Brunswick	13	375	---	6/8/48	38	.13	.00	32	12	21	198	3.6	5.2	.1	.3	203	129
Chadbourn	5	80	---	1/22/48	38	.38	.15	53	3.8	8.2	173	2.3	18	.1	.1	215	152
do	18	93	---	1/22/48	33	4.8	.05	41	4.2	6.2	152	2.8	4.0	.0	.0	166	120
Fair Bluff	15	270	---	5/20/48	55	2.0	.00	.5	.4	52	111	3.0	13	.9	.2	186	3
do	16	83	---	5/20/48	49	.25	.00	10	1.7	31	110	1.4	4.5	.2	.5	152	32
Whiteville	12	210	---	1/8/48	44	.09	.00	19	5.1	73	242	1.7	9.2	.0	.6	280	68
do	11	263	---	1/8/48	37	.06	.00	28	8.7	34	205	1.8	6.8	.1	.1	211	106
<b>Robeson County:</b>																	
Pembroke	14	93	Sand	4/25/47	14	.48	.00	14	1.7	4.3	52	2.4	4.1	.0	.0	65	42
<b>Scotland County:</b>																	
Gibson	21	123	Sand	5/14/47	4.7	.28	.00	1.4	1.2	15	2	5.1	15	.5	.15	61	8
<b>Columbus County:</b>																	
Tabor City	2	210	---	4/26/41	---	---	---	---	---	---	308	1	5	0.6	---	---	51
do	1	300?	---	4/26/41	---	---	---	---	---	---	343	1	22	1.0	---	---	9
Chadbourn	4	78	---	4/26/41	---	---	---	---	---	---	170	1	5	.2	---	---	123
Whiteville	10	84	---	4/26/41	---	---	---	---	---	---	222	1	8	.1	---	---	162
<b>Robeson County:</b>																	
Fairmont	15	380	Sand	3/3/45	---	0.59	---	---	---	---	116	---	---	---	---	---	15
do	3	265	do	1/20/44	---	---	---	---	---	---	108	2	2	---	---	---	12
Lumberton	11	113	do	1/21/44	---	6.8	---	---	---	---	88	3	4	---	---	---	58
do	17	191	---	3/3/45	---	2.2	---	---	---	---	42	---	---	---	---	---	9
do	19	405	---	3/16/45	---	.54	---	---	---	---	137	3	6	---	---	---	99

Analyses of water from wells in the Coastal Plain section of Yadkin-Pee Dee River Basin  
(Continued)

Location	Well no.	Depth (feet)	Aquifer	Date	Silica (SiO <sub>2</sub> )	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Dissolved solids	Total hardness as CaCO <sub>3</sub>
Robeson County (Continued):																	
Rowland	4	269	-----	1/20/44	----	---	---	---	---	---	41	4	4	.0	---	---	33
do	16	250	-----	3/3/45	----	.57	---	---	---	---	44	---	---	---	---	---	27
Saint Pauls	10	110	-----	1/21/44	----	.52*	---	---	---	---	---	15	10	---	---	---	6
Scotland County:																	
Laurinburg	18	40	-----	1/22/44	----	---	---	---	---	---	12	17	6	---	---	---	30

\* Acid to methyl red.

## Records of wells in the Yadkin-Pee Dee River Basin

## Piedmont section

Well no.	Location	Owner	Driller	Depth (feet)	Di- am- eter (inches)	Depth of casing (feet)	Yield (gallons a minute)	Aquifer and remarks
Anson County								
1	Lilesville	Town	Heater Well Co.	290	8	90	40	Granite.
2	Morven	do	Leonard	190	6	---	30	Slate.
3	do	do	do	158	6	---	40	Do.
Cabarrus County								
27	Kannapolis	Page Hager	Ben Aycock	135	2 $\frac{1}{2}$	85	17	Granite. Supplies 26 houses.
29	do	J. G. Lowe	-----	107	2 $\frac{1}{2}$	80 $\frac{1}{2}$	8	Granite. These two and four similar wells
31	do	do	-----	190	2	---	15	Do supply 140 houses.
36	do	Ben Aycock	Ben Aycock	180	6	54	57 $\frac{1}{2}$	Do. Supplies 80 houses.
70	Roberta	Roberta Mfg. Co.	do	276	6	---	15	Gabbro-diorite.
76	Concord	Jackson Training School	Sydnor Well Co.	300	8	175	35	Syenite.
79	do	Clear Springs Farm	Ben Aycock	157	4	40	22	Gabbro-diorite.
80	do	do	do	140	4	30	3	Do.
85	do	Brown Mfg. Co.	do	259	6	80	37	Granite.
86	do	do	-----	175	2 $\frac{1}{2}$	---	12	Do.
88	do	Cannon Mills Co.	Sydnor Well Co. (?)	612	8	---	25	Do.
91	do	Plant No. 6	Ben Aycock	170	4	40	22	Do.
93	do	Cannon Mills Co.	-----	88	4	---	20-25	Do.
94	do	Plant No. 10	-----	170	4	---	3 $\frac{1}{2}$	Do.
95	do	The Stead and Miller Co.	-----	173	2	---	3	Do.
98	do	Cannon Mills Co.	-----	185	4	---	20	Do.
121	Mount Pleasant	Cook Packing Co.	Ben Aycock	350	6	84	30	Schist and slate.
122	do	Town	-----	250	8-6	75	50	Do.
123	do	do	-----	200	8-6	150?	37	Do.
123a	do	do	Ben Aycock	263	6	73	40	Do.
124	do	do	Hickory Well Co.	181	6	109	9	Do.
		Kindley Cotton Mills	Bost			60		

## Records of wells in the Yadkin-Pee Dee River Basin

## Piedmont section (continued)

Well no.	Location	Owner	Driller	Depth (feet)	Di- am- eter (inches)	Depth of casing (feet)	Yield (gallons a minute)	Aquifer and remarks
Cabarrus County (continued)								
125	Mount Pleasant	Mount Pleasant Hosiery Mill	Ben Aycock	200	4	100	4-5	Slate.
126	do	Tuscaroro Cotton Mill	-----	150	4	---	50	Schist.
151	Midland	Black Hosiery Mill Co.	Efird & Honeycutt	208	4	---	6	Slate.
152	do	do	do	75	4	---	7	Do.
153	do	do	do	128	4	---	4-5	Do.
Davidson County								
1	Thomasville	Economy Hosiery Finishers	R. E. Faw & Sons	280	8	35	20	Schist.
2	do	Thomasville Chair Co.	-----	450	8	---	25	Do.
6	Lexington	Coble Dairy Products Inc.	Bost	210	6	---	30	Granite.
7	do	do	do	220	6	---	30	Do.
8	do; 3 miles West of	Coble Dairy Farm	Hickory Well Co.	212	6	175	50	Do.
9	do	do	do	214	6	---	10	Do.
10	do	do	do	241	6	130	44	Do.
11	do	do	do	146	6	115	15	Do.
13	Lexington	Wennonah Cotton Mills Co.	Sydnor Well Co.	602	8	---	31	Granite (?)
14	Denton	Town	-----	200	8	---	15	Slate.
15	do	do	-----	238	8	---	---	Do, dry; not used.
16	do	do	-----	200	6	---	55	Slate.
16a	do	do	Heater Well Co.	400	8	---	35	Do.
17	do	Coble Roller Mill	-----	160	4	---	22	Do.
33	Welcome	Welcome Milling Co.	Miller	116	4	---	5	Granite.
34	do	L. C. Ripple	do	160	4	---	16	Do; supplies 33 homes.
35	Midway	School	-----	550	6	---	20+	Granite; level, did not lower while bailing.
69	Lexington, 3 miles W of	Hillcrest Tourist ?	Hickory Well Co.	210	8-6	77	15+	Granite.

## Records of wells in the Yadkin-Pee Dee River Basin

## Piedmont section (continued)

Well no.	Location	Owner	Driller	Depth (feet)	Di- am- eter (inches)	Depth of casing (feet)	Yield (gallons a minute)	Aquifer and remarks
Davie County								
1	Mocksville	Town	-----	350	10	---	6	These wells and two other 3-inch wells all in granite; abandoned when city changed to surface water supply.
2	do	do	-----	300	8	---	20	
4	do	do	-----	700	8	---	20	
5	do	do	-----	185	3	---	8	
Forsyth County								
2	Bethania	Old Rich School	M. A. Holder	130	6	---	10	Gneiss.
3	Rural Hall	Rural Hall						
24	Winston-Salem	Sanitary District	Well Drillers, Inc.	350	8	90	125	Do.
27	do	Airport	do	200	8	20	50	Do.
28	do	R. J. Reynolds Co.	M. A. Holder	408	6	---	40-45	Do.
30	do	do	Bishop	320?	5	---	30-35	Do.
32	do	Prison Camp	J. R. Cummings	160	6	---	20	Do.
36	do	T. W. Garner Food Co.	Well Drillers, Inc.	200	6	---	7	Do.
37	do	County Sanatorium	J. R. Cummings	385	8	---	20	Do.
66	do	County Home	Clayton & Cummings	315	8	---	90	Do.
		P. H. Hanes Knitting Co.	-----	80	2	---	54	Do. Seven wells 40-80 feet deep; combined yield 54 gallons a minute.
67	do	do	-----	150-200	5	---	16	Gneiss.
68	do	do	M. A. Holder	102	5-5/8	---	15	Do.
70	Winston-Salem	Grapette Bottling Plant	Well Drillers, Inc.	323	6	---	30	Do.
72	do	Selected Dairies Co.	do	348	6	---	30	Do.
73	do	do	M. A. Holder	410	6	---	13	Do.

## Records of wells in the Yadkin-Pee Dee River Basin

## Piedmont section (continued)

Well no.	Location	Owner	Driller	Depth (feet)	Di- am- eter (inches)	Depth of casing (feet)	Yield (gallons a minute)	Aquifer and remarks
Forsyth County (continued)								
74	Winston-Salem	R. F. Lasater, Smoke House	M. A. Holder	538	6	---	50	Gneiss.
87	do	Peerless Ice Cream Co.	W. A. Chambers	198	10	---	100	Do.
88	do	Crystal Ice and Coal Co.	-----	140±	6	---	43+	Do.
89	do	Taylor Tobacco Co.	Well Drillers, Inc.	420	6	---	21	Do.
90	do	Brown and Williamson Tobacco Co.	do	401	6	75	100	Do.
91	do	Southern Dairies Co.	M. A. Holder	324	5-5/8	118	17½	Do.
93	do	R. J. Reynolds Co. Power Plant	Well Drillers, Inc.	714	6	100±	40	Do.
94	do	R. J. Reynolds Co. Foil Plant	M. A. Holder	316	6	---	35	Do.
95	do	Carolina Narrow Fabrics Co.	Well Drillers, Inc.	268	6	---	24	Do.
97	do	Hanes Hosiery Mills Co.	R. E. Faw	211	8	32	30	Do.
98	do	do	do	405½	8	35	65	Do.
99	do	do	Hanes Hosiery Co.	1097	8	---	35	Do.
120	Kernersville	Town	Hudson Well Co.	580	6	---	10	Granite. Abandoned
122	do	do	J. R. Cummings	150?	8	---	75?	Do. Supply failed; abandoned.
123	do	do	do	175?	6	---	(?)	Do. Abandoned.
124	do	Adams Millis Co.	do	308	6	---	18	Granite.
125	do	Vance Knitting Co.	do	185	6	---	9	Do.
125a	do	R. J. Reynolds Co. Storage Warehouse	M. A. Holder	335	6	---	35	Gneiss.
164	Clemmons	Duke Power Co.	do	110	5-5/8	---	10-12	Do.

## Records of wells in the Yadkin-Pee Dee River Basin

## Piedmont section (continued)

Well no.	Location	Owner	Driller	Depth (feet)	Di- am- eter (inches)	Depth of casing (feet)	Yield (gallons a minute)	Aquifer and remarks
Iredell County								
1	Statesville	Carnation Milk Co. Town	Sydnor Well Co.	503	10-8	150	500	Gneiss.
2	Troutman		Virginia Machine and Well Co.	560	8	---	60	Do.
3	do	do	do	500±	8	---	25	Do.
4	do	American Thread Co.	-----	410	---	---	---	Do.
5	Barium Springs	Presbyterian Orphanage Home	-----	60	6	---	24	Do. Well at power plant
6	do	do	-----	300	8	---	40	Gneiss.
7	do	do	-----	250	6	---	18	Do.
8	Statesville	Stimpson Hosiery Mills	Hickory Well Co.	500	8-6	61	20	Do.
9	do	Phoenix Mills	Virginia Machine and Well Co.	802	10-8	57	0	
10	do	do	do	779	10-8	56	15	
13	do	do	do	400	8-6	102	3	
Mecklenburg County								
22	Huntersville	County Sanitorium	-----	120+	8	---	15	Diorite or granite.
23	do	do	-----	140+	8	---	11	Do.
24	do	Town	-----	70	5	---	9	Do.
25	do	do	Abernathy	210	8	100	22	Do.
26	do	do	Ralph Robbins	97	5	97	5	Granite.
27	do	do	R. E. Faw	190	8	100±	35	Do.
29	do	Anchor Mills Co.	Ralph Robbins	185	5	---	10	Do.
34	do	Plantation Pipeline	-----	260	8	---	20	Do.
47	Newell	County Home	Hinson	162	10	---	60	Diorite.
Montgomery County								
1	Biscoe	Town	-----	178	8	---	200?	Slate.
2	do	do	-----	209	8	---	16	Do.
3	do	do	-----	336	8	71	75	Do.

# Records of wells in the Yadkin-Pee Dee River Basin

## Piedmont section (continued)

Well no.	Location	Owner	Driller	Depth (feet)	Di- am- eter (inches)	Depth of casing (feet)	Yield (gallons a minute)	Aquifer and remarks
Montgomery County (continued)								
4	Star	Town	-----	180	8	40	55	Slate.
5	do	do	-----	200	8	50	35	Do.
6	do	do	-----	300	8	35	168	Do.
7	do	do	-----	313	8	170	30	Do.
8	Candor	Town	R. E. Faw & Sons	175	8	170	23	Do.
9	do	do	-----	70	8	70	15	Sand and gravel (Tuscaloosa)
10	do	do	-----	65	6	60	10	Do.
Rowan County								
1	China Grove	Town	Syndor Well Co.	319	8	61	50	Gneiss.
2	do	do	do	404	8	81	60	Do. Abandoned, pumped sand.
3	do	do	Virginia Machine and Well Co.	714	10	123	90	Gneiss.
4	do	do	Hickory Well Co.	750	8-6	168	40	Do.
5	do	China Grove Cotton Mill	Virginia Machine and Well Co.	141	8	68	10	Do.
6	do	do	do	601	8	68	60	Do.
7	Salisbury	Prison Camp	Heater Well Co.	219	6	70	40	Granite.
8	Landis	Town	-----	406	6	70	30	Do.
9	do	do	-----	604	8	80	60	Do.
10	Rockwell	Town	-----	144	8	144?	100	Slate.
11	Cleveland	Town	-----	187	8	90	(?)	Granite (?).
Stanley County								
1	Oakboro	Town	-----	108	8	60	65	Slate.
2	do	do	-----	100	8	60	75	Do.
3	do	Oakboro Cotton Mill	Carolina Drilling Co.	200	8	---	65	Do.
Stokes County								
61	Pinnacle	School	-----	80	6	---	8-10	Schist.

Records of wells in the Yadkin-Pee Dee River Basin

Piedmont section (continued)

Well no.	Location	Owner	Driller	Depth (feet)	Diameter (inches)	Depth of casing (feet)	Yield (gallons a minute)	Aquifer and remarks
Surry County								
2	Pilot Mountain	Town	Danville Well Co.	384	8	---	100	Schist.
3	do	do	do	406	8	---	150	Do.
4	do	do	R. E. Faw & Sons	457	8	50	250	Do.
6	Elkin, 8 miles N of	Klondike Farms	do	300	8	---	300	Do.
Wilkes County								
1	North Wilkesboro	Coble Dairy Products	Hickory Well Co.	300	10	---	100	Schist.
2	do	do	do	220	8	---	100	Do.
3	do	Union Mirror Co.	R. E. Faw & Sons	510	10-8	500	336	Do. Used slotted pipe from 400 to 500 feet.
4	do	Frank Blair Ice & Fuel Co.	-----	---	8	---	125	-----
Yadkin County								
1	Yadkinville	Town	-----	267	6	56	23	Diorite (?)
2	do	do	-----	291	8	---	10	Do.
3	do	do	-----	286	6	60	26	Do.
4	Boonville	Town	Virginia Machine and Well Co.	251	8	43	75	Gneiss.
5	Jonesville	Town	R. E. Faw & Sons	484	10	154	30	Granite (?).

# Records of wells in the Yadkin-Pee Dee River Basin

## Coastal Plain section

Well no.	Location	Owner	Driller	Depth (feet)	Di- am- eter (inches)	Depth of casing (feet)	Depth to water (feet)	Yield (gallons a minute)	Aquifer and remarks
Bladen County									
8	Bladenboro Clarkton	Town Town	Carolina Drilling Co. Virginia Machine and Well Co.	178	20	178	10	230	Sand (Black Creek). Sand (Black Creek).
Brunswick County									
12	Long Beach	Public Supply	T. W. Callahan	118	3?	---	---	360	Marl (Castle Hayne?).
Columbus County									
1	Tabor City	Town	Virginia Machine and Well Co.	300? 210	10-6 8	---	20 45	60 80	Sand (Black Creek). Do.
2	do	do	do						
3	do	Columbus Ice & Fuel Co.	Carolina Drilling Co.	59 78 80+	6 6 8	54 73 80	17 23 ---	45 50 300	Sand (Pee Dee). Do. Do.
4	Chadbourn	do	J. M. Hinson						
5	do	City Independent Ice Co.	-----	135 84	10 1 1/4	---	12 2	1800 ---	Do. Do.
9	do	Vineland Ice Co. Town	-----						
10	Whiteville	do	Virginia Machine and Well Co.	263 210	6 6	200 (?)	18 Flows	600 250	Sand (Black Creek). Do.
11	do	do	(?)						
12	do	do	-----	375	4	---	---	30	Do.
13	Brunswick	E. L. Vinson and R. Gaskin	Virginia Machine and Well Co.	270 83	10-8 6	242 63	---	115 100	Do. Do.
15	Fair Bluff	Town	Heater Well Co. Carolina Drilling Co.	340	28-8	310	37	600	Do.
16	do	do	-----						
17	Tabor City	Town	Virginia Machine and Well Co.	107	8	97	---	300	Sand (Pee Dee).
18	Chadbourn	Town	do						
19	Bolton, 4 miles E of	U. S. Army	Carolina Drilling Co.	145	6	135	---	90	Do.

## Records of wells in the Yadkin-Pee Dee River Basin

## Coastal Plain section

Well no.	Location	Owner	Driller	Depth (feet)	Diameter (inches)	Depth of casing (feet)	Depth to water (feet)	Yield (gallons a minute)	Aquifer and remarks
Columbus County (continued)									
20	Bolton	Reigel Paper Co.	Heater Well Co.	158	8	---	18	165	Sand and limestone (Pee Dee).
Moore County									
3	Aberdeen	Mountain Ice Co.	Heater Well Co.	30	2	30	---	380*	Sand (Tuscaloosa). * 380 gallons a minute from group of 20 wells.
5	Samarcaud	Samarcaud Manor	Carolina Drilling Co.	386	8	---	140?	50	Slate.
6	do	do	R. E. Faw & Sons	---	8	---	50	30	
Richmond County									
1	Ellerbee	Town	---	530	10	300	---	25	Slate.
2	do	do	---	120	10	110	---	18	Sand (Tuscaloosa).
3	do	do	---	120	10	110	---	15	
4	Hoffman	Morrison Training School	Carolina Drilling Co.	130	26-8	130	---	65	Do.
6	Rockingham	Burlington Mills, Inc.	Sydnor Well Co.	268	12	26	2	22	Slate.
7	do	do	do	180	6	---	---	25	Do.
8	do	do	do	130	6	---	---	10	Do.
10	do	do	do	475	6	20?	---	11	Do.
Robeson County									
1	Fairmont	Town	Sydnor Well Co.	300	8	---	---	120	Sand (Black Creek).
2	do	do	do	265	8	---	---	60	Do.
3	do	do	do	265	8	---	---	35	Sand (Black Creek).
4	Rowland	Town	Carolina Drilling Co.	269	24-8	269	---	160	Sand (Black Creek & Tuscaloosa) Gravel-walled well.
8	Red Springs	Town	do	101	22-8	101	---	125	Sand (Tuscaloosa). Do.

## Records of wells in the Yadkin-Pee Dee River Basin

## Coastal Plain section (continued)

Well no.	Location	Owner	Driller	Depth (feet)	Diameter (inches)	Depth of casing (feet)	Depth to water (feet)	Yield (gallons a minute)	Aquifer and remarks
Robeson County (continued)									
9	Red Springs	Town	Carolina Drilling Co.	206	24-8	206	---	450	Sand (Tuscaloosa) Gravel-walled well.
10	St. Pauls	do	-----	110+	6	(?)	---	100	Three wells; all about same depth and yield.
11	Lumberton	Jennings Cotton Mill	Heater Well Co.	113	6	107	15	80	Sand (Black Creek).
12	do	do	-----	103	6	---	---	90	Sand and gravel (Black Creek).
14	Pembroke	Town	Heater Well Co.	93	8	83	---	100	Sand (Black Creek).
14a	do	do	do	117	8	---	---	125	Do.
15	Fairmont	Town	Carolina Drilling Co.	380	26-8	323	12	775	Sand (Black Creek and Tuscaloosa).
16	Rowland	do	do	250	26-8	---	18	775	Do.
17	Lumberton	Airport	-----	191	8	164	+2 (flows)	400	Sand (Black Creek).
19	do	City Ice and Fuel Co.	Carolina Drilling Co.	105	29-8	390	---	200	Do.
21	do	Town	-----	100	2	100	flows 2-3	200	Do. Flows 2 to 3 gallons a minute.
25	do	Jennings Cotton Mill	Heater Well Co.	107	6	---	---	125	Sand (Black Creek).
27	Red Springs	Red Springs Weaving Co.	Carolina Drilling Co.	210	22	---	---	280	Sand (Tuscaloosa).
28	Maxton	Town	do	370	24-8	360	---	500	Do.
Scotland County									
1	Maxton	Army Air Base	Virginia Machine and Well Co.	156	8	121 1/2	---	300	Drilled to 448 feet Sand (Tuscaloosa)
2	do	do	do	230	8	198	---	---	Sand came in; could not develop.
7	do	do	do	193	8	173	---	75	Sand (Tuscaloosa).

## Records of wells in the Yadkin-Pee Dee River Basin

## Coastal Plain section (continued)

Well no.	Location	Owner	Driller	Depth (feet)	Di- am- eter (inches)	Depth to casing (feet)	Depth to water (feet)	Yield (gallons a minute)	Aquifer and remarks
Scotland County (continued)									
9A	Maxton	Army Air Base	Virginia Machine and Well Co.	140	8	105	21.7	200	Sand (Tuscaloosa).
11	do	do	do	123 $\frac{1}{4}$	8	91 $\frac{1}{2}$	---	250	Do.
14A	do	do	do	152 $\frac{1}{4}$	8	115	---	200	Do.
15	do	do	Carolina Drilling Co.	346	27-8	346	7	1000	Do. Gravel-walled well.
16	do	do	do	166-3/4	27-8	163	6	1000	Do.
17	Wagram	Town	-----	30	1 $\frac{1}{4}$	27	---	56	Sand, 12 wells yield total of 56 gallons a minute.
18	Laurinburg	Laurinburg Ply-wood Corp.	-----	40	2	---	Flows	25	Flows 10 gallons a minute; pumps 25 gallons a minute from 3 wells.
21	Gibson	Town	Carolina Drilling Co.	123	26-8	---	---	150	Sand (Tuscaloosa). Gravel-walled well.
23	Laurel Hill	do	do	120	22-8	---	---	250	Do.
24	Laurinburg	James McNair	Heater Well Co.	40	6	---	---	150	Sand (Tuscaloosa).
25	do	do	do	165	6	---	---	150	Do.











